

Manufacturers Record

Exponent America



\$6.50 per Year.
Single Copy, 20 Cents.

Baltimore, Md.
MARCH 13, 1924

Broadening the Knowledge of the South and About the South.

The Fourth National Bank,

Macon, Ga., February 13.

Editor Manufacturers Record:

I think you observed when you called on us last time that you needed to use no persuasion in securing our third order for the Blue Book of Southern Progress.

In addition to its value in giving our own people information regarding the remarkable progress this territory has made, we have found the distribution of this book one of the best pieces of bank publicity that we have undertaken.

The appreciation of the book on the part of our friends is shown by the fact that each year we have increased the number of books ordered. A large number of the more successful men of this section have begun to look upon this book as a regular institution and along about this time of the year we commence to receive requests from them for information as to when the new edition will be available. Quite a number of our friends come to us for a second copy of the book, stating that their copy has either been carried off by an acquaintance or appropriated by a representative of their connections in other territory.

Just recently we had a letter from a gentleman who was traveling in Florida who stated that he had seen one of these books in the hands of one of our customers and that he would appreciate our sending him one if it were available.

The value which our people place upon the book is shown by the many public references made to its distribution and requests from various organizations that their executives be given a copy.

C. O. Carpenter,
Assistant Vice-President.

The Fourth National Bank of Macon has found the Blue Book of Southern Progress so valuable for distribution among its friends in Georgia and to send to other sections to make known the progress of the South, that for three successive years it has ordered a large number of copies. In 1922 it ordered 550 copies and in 1923 it increased this to 1200. Of the 1924 edition to be issued shortly it has also ordered 1200 copies.

Surely if this bank has found the Blue Book of Southern Progress of such value, every business concern in the South might wisely follow its example. Advance orders are invited from individuals and from business concerns. The price is 50 cents a copy for less than 500 copies, forty cents a copy for orders of 500 to 1000 copies, and thirty cents a copy for 1000 or more. Orders for ten copies or less should be accompanied by check, money order or stamps.

ESSCO

A large number of railway companies and industrial buyers send inspectors to the mill when buying timbers. There is a big advantage in this inspection at the mill.

It does away with all future troubles after the timbers are loaded, and insures complete satisfaction to the buyer, which is our biggest aim. For this reason, our mill managers are more than glad to have inspection at their mills.

We have great confidence in our timbers, which are manufactured from our own virgin Long Leaf Southern Pine logs. Our holdings are all in that belt in Louisiana where Long Leaf Southern Pine grows to its best. Our mills and excellent rail facilities enable us to meet your requirements promptly. ESSCO timbers are long-life timbers.



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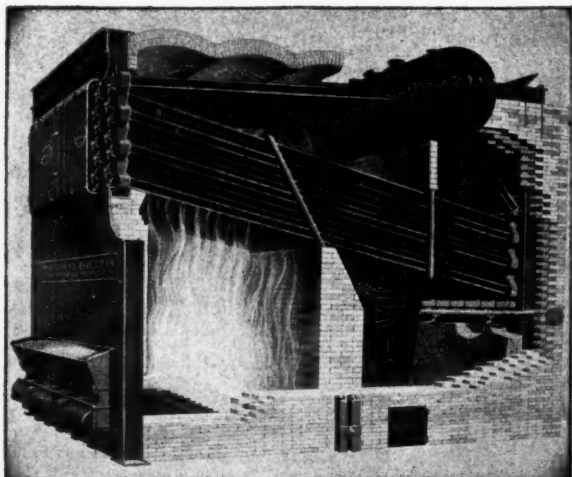
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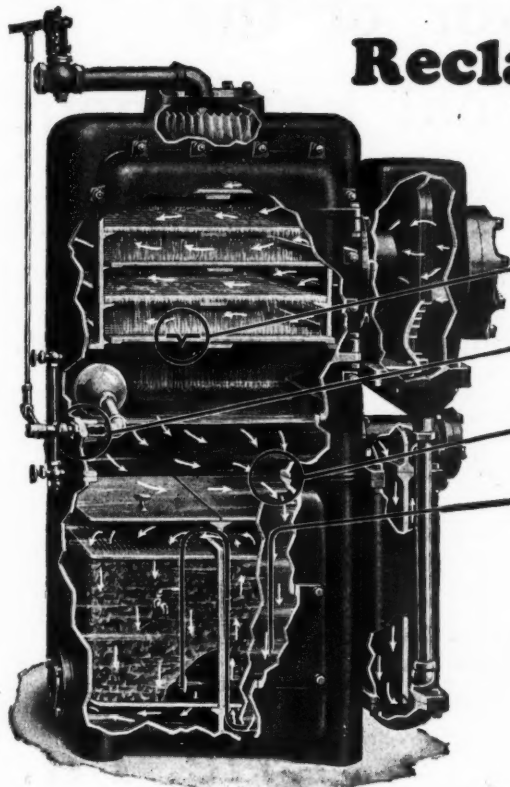
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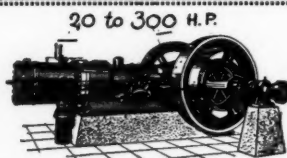
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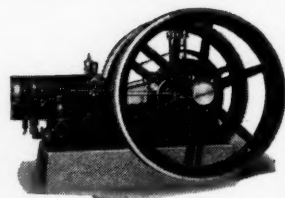
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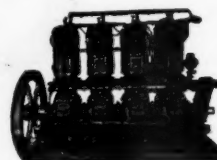
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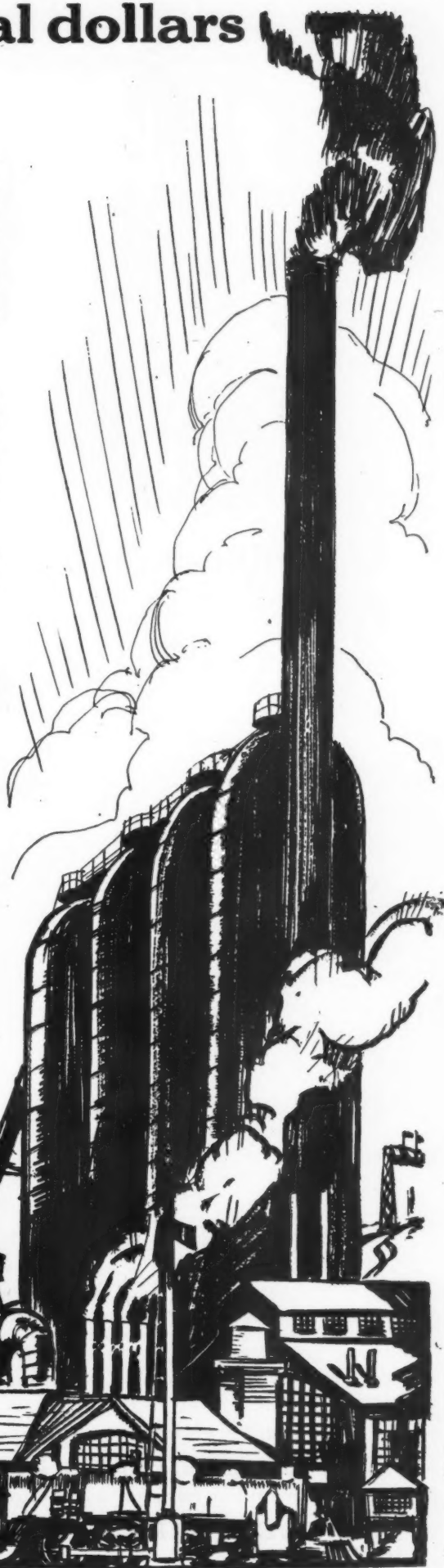
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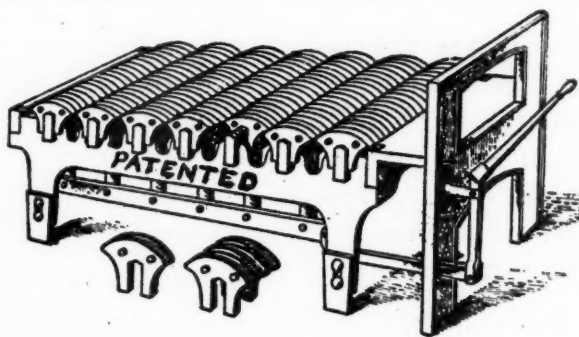
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Fig. 788 Bronze Fig. 1426 Steel

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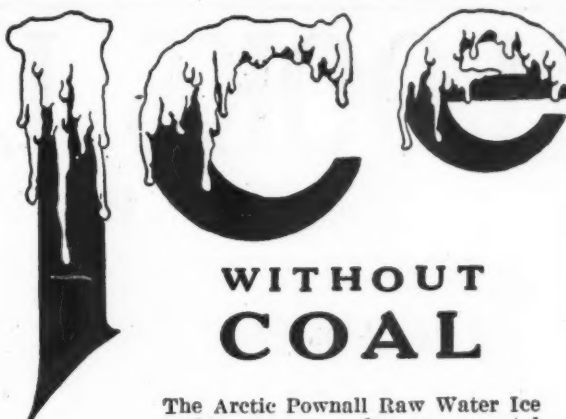
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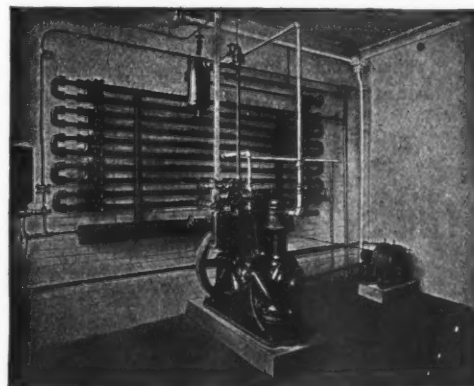
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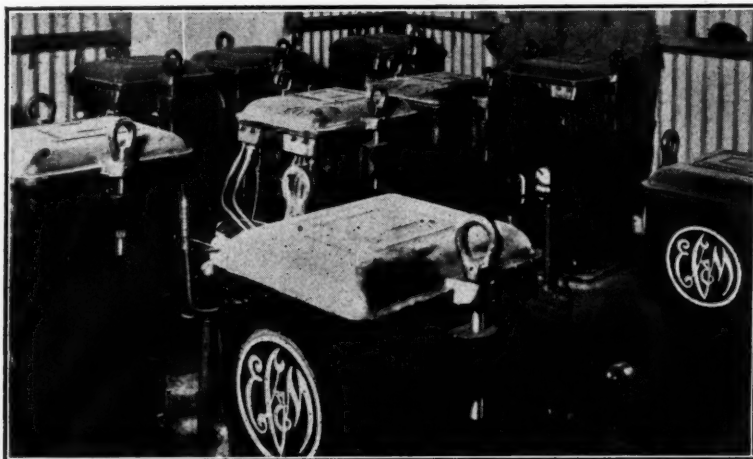
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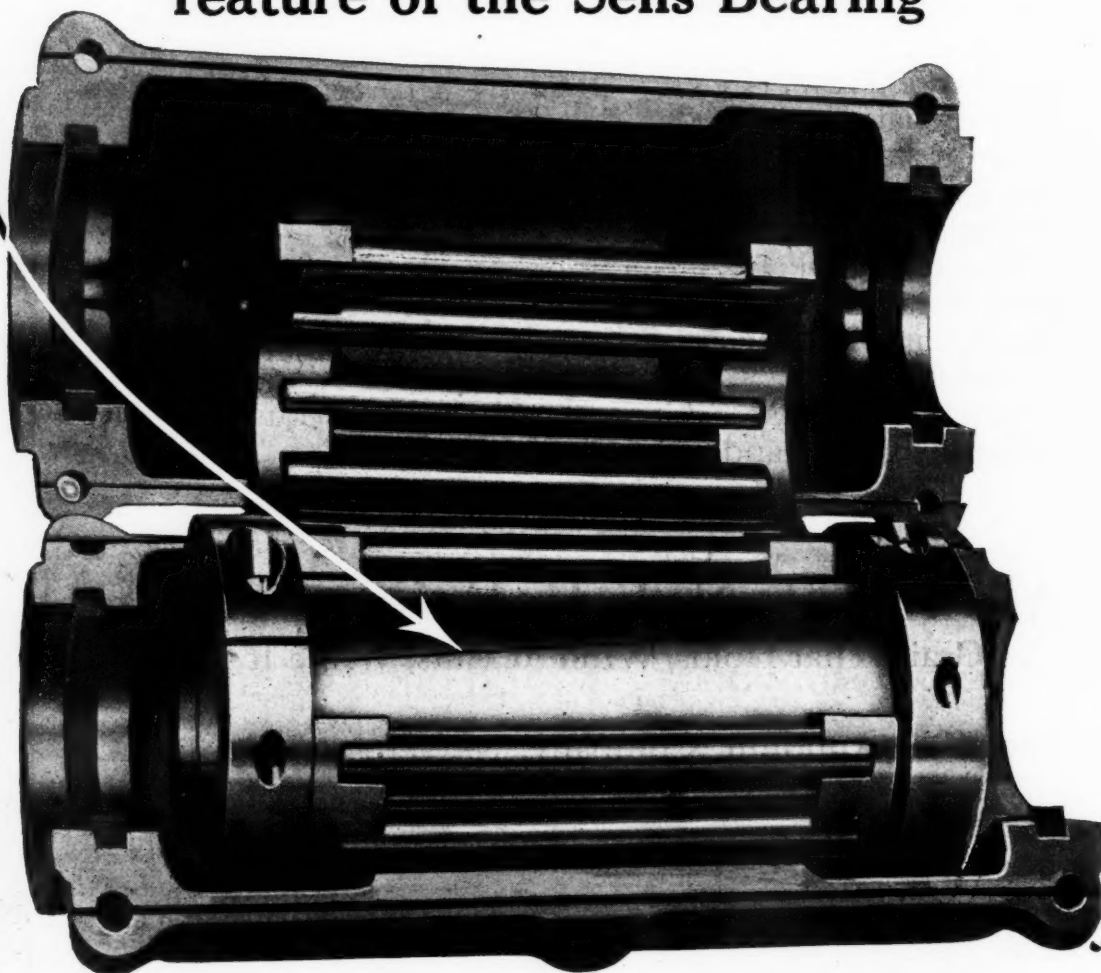
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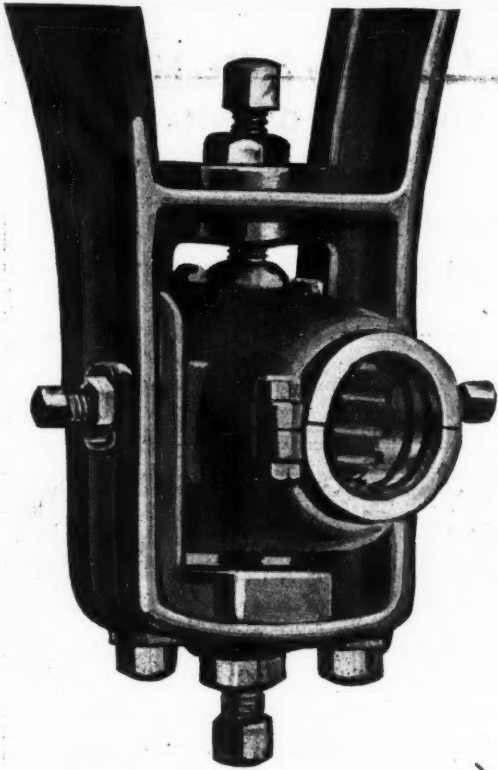
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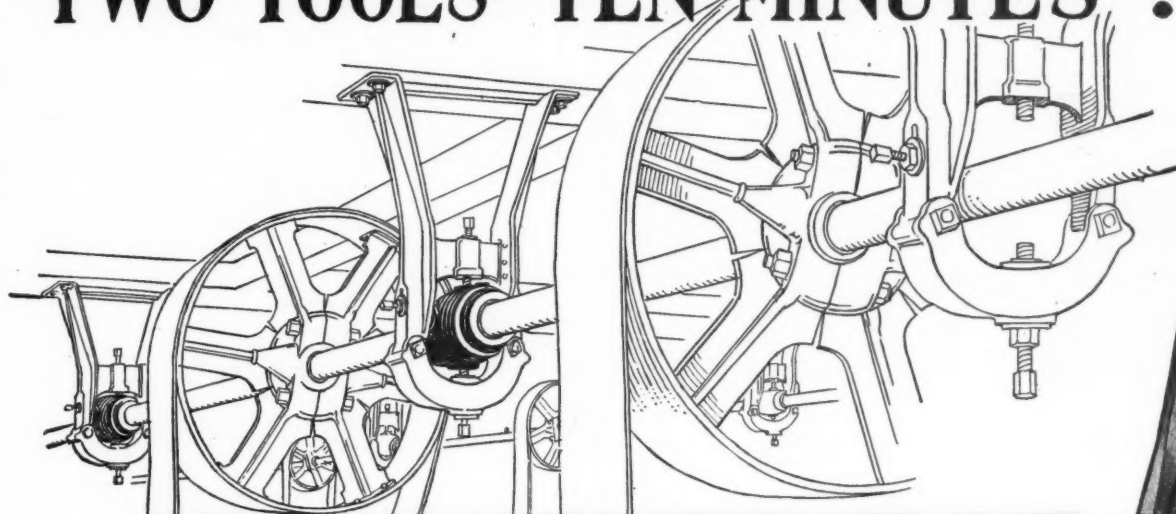
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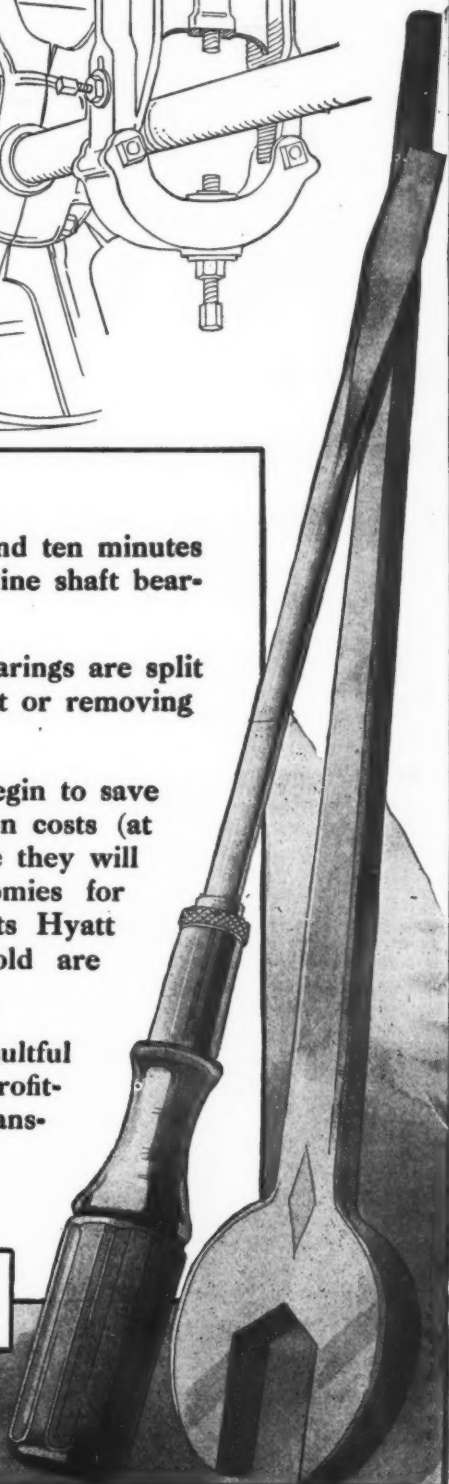
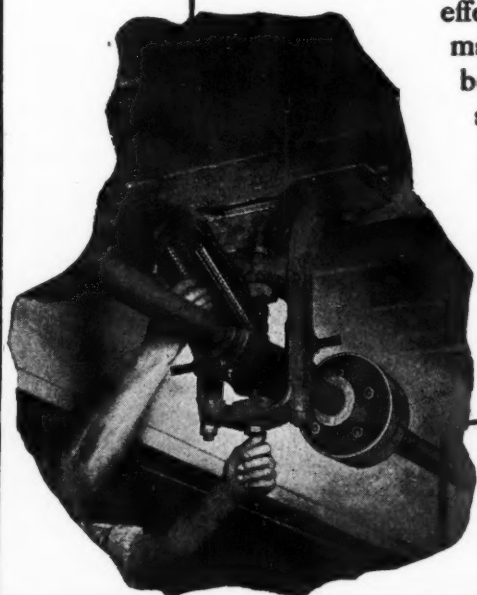
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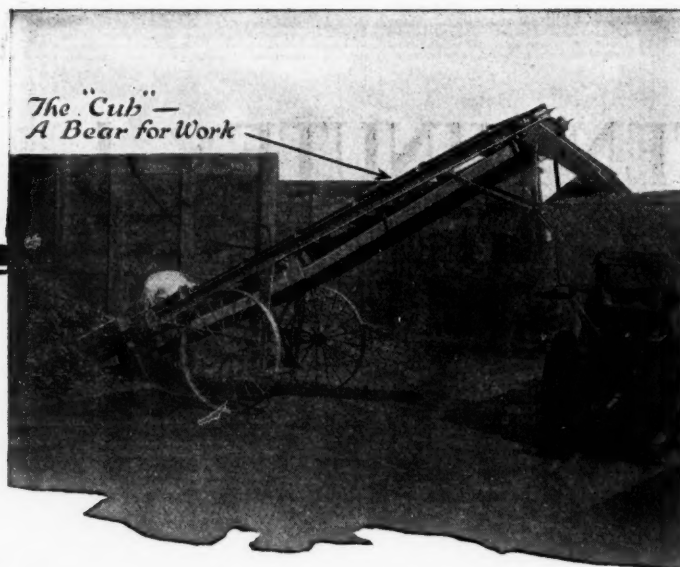
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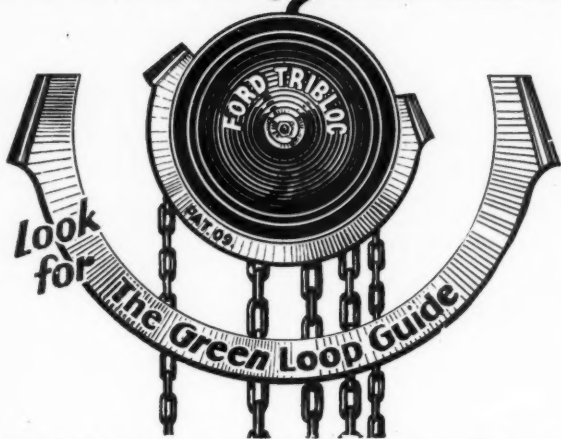
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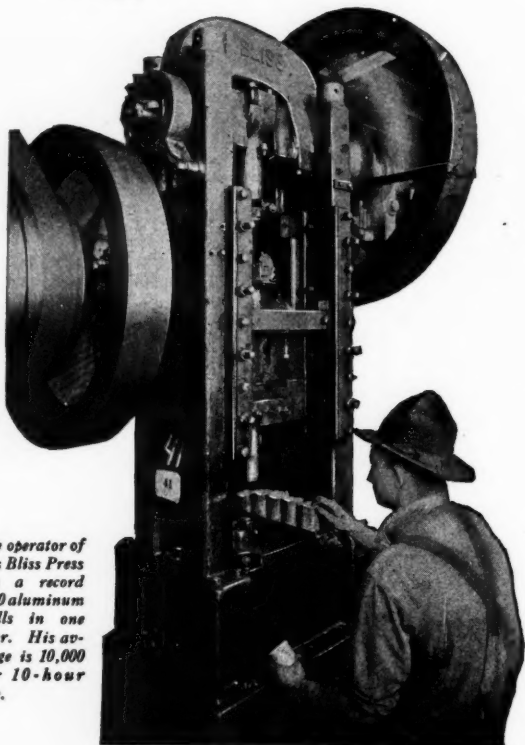


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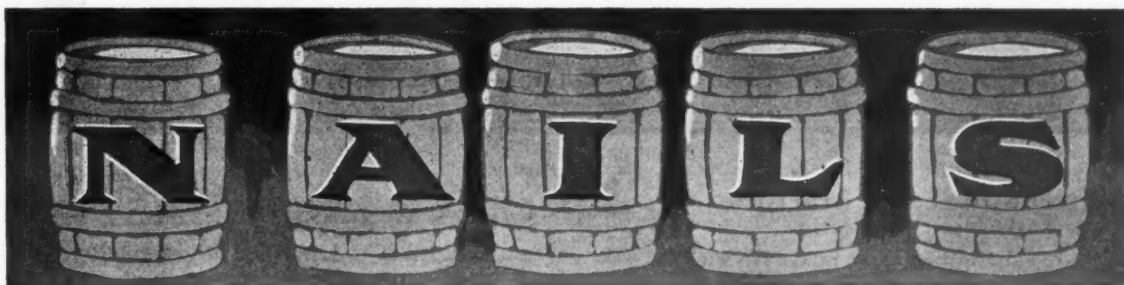
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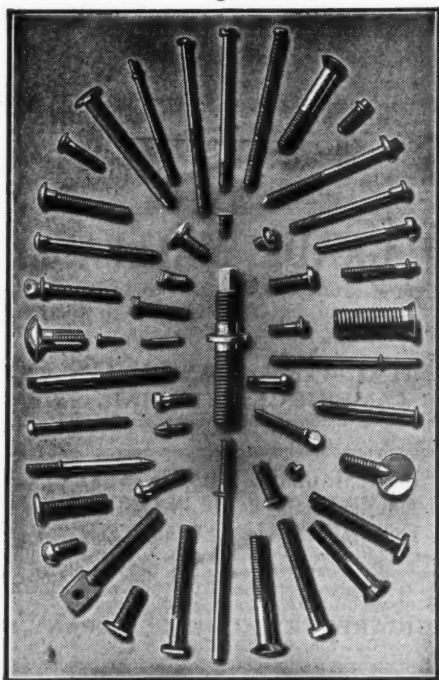


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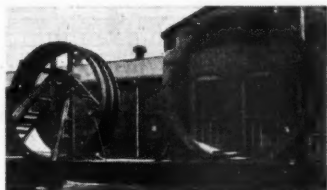
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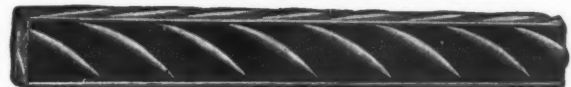


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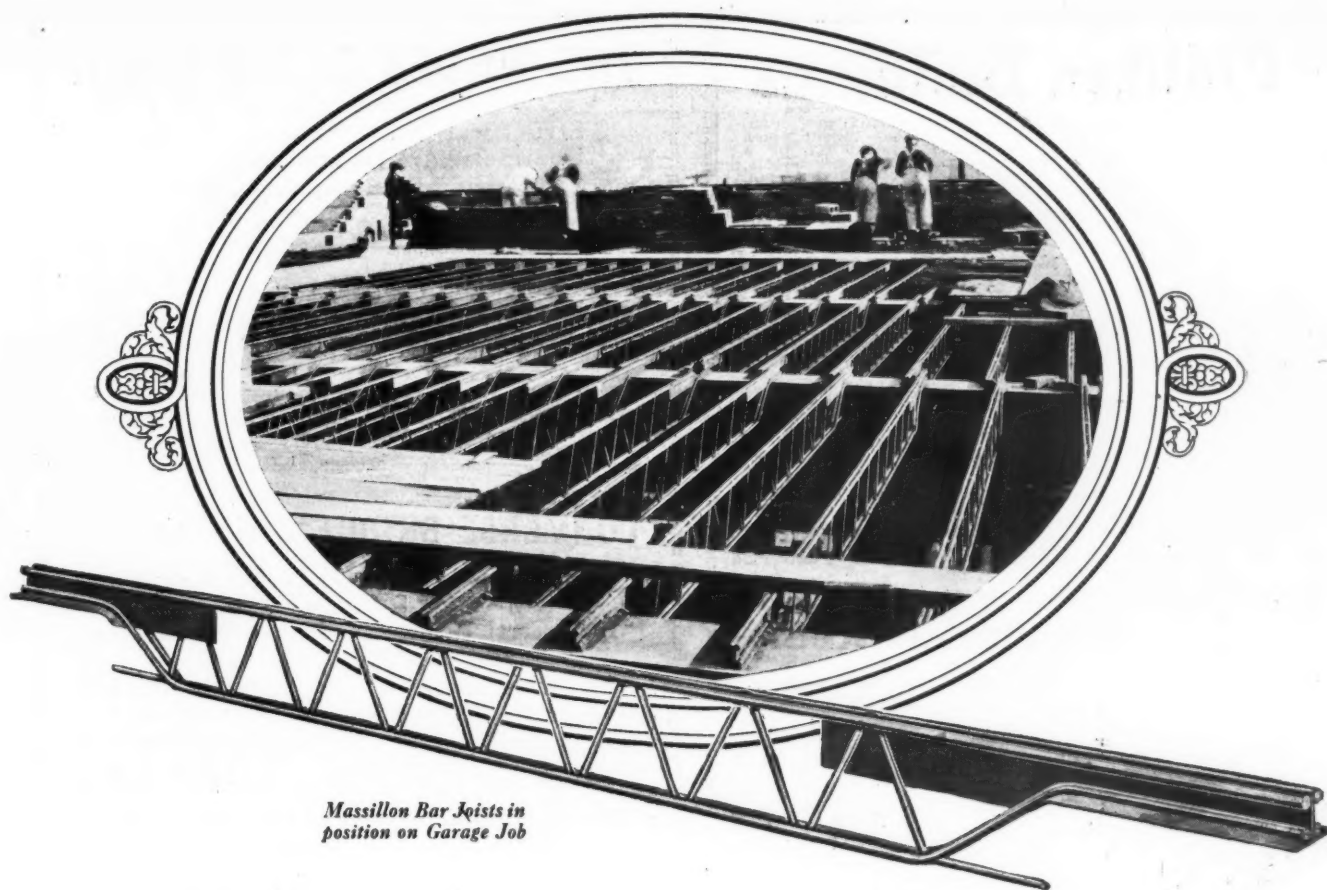
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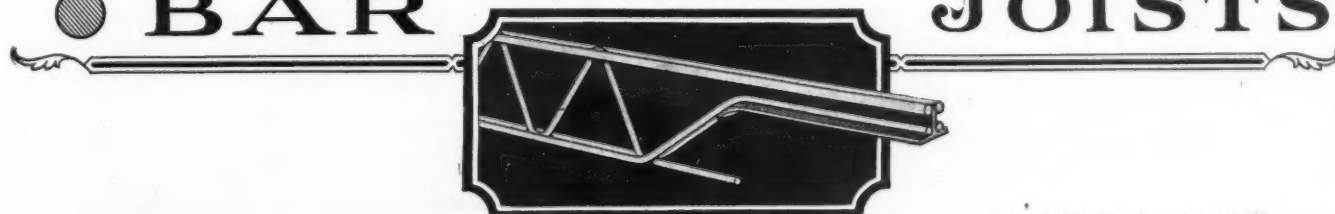
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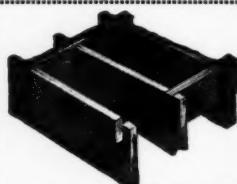
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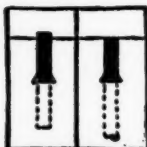
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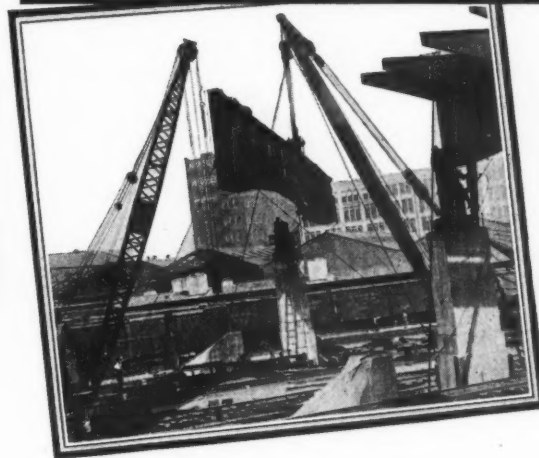
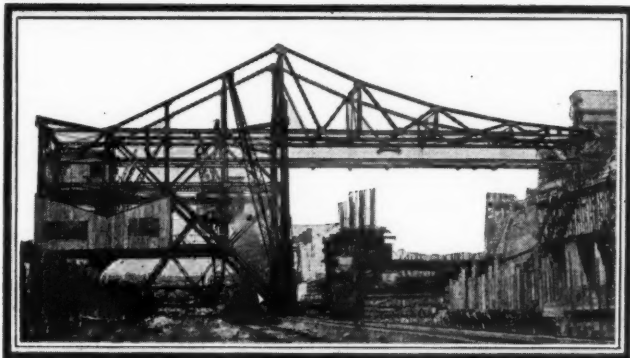
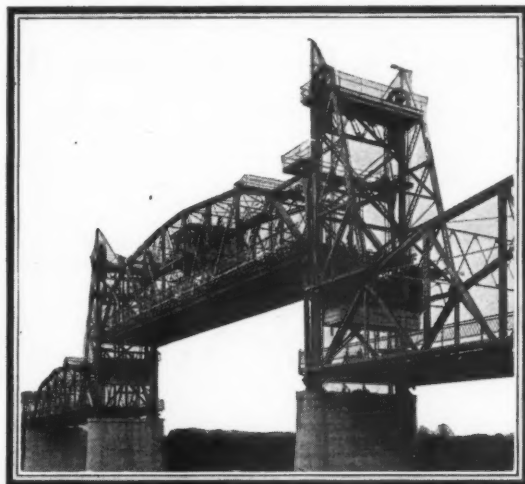
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Upper Right: Bridge over Warrior River, Tuscaloosa, Ala.

Lower Left: Gantry Crane, U. S. Gov't., Florence, Ala.

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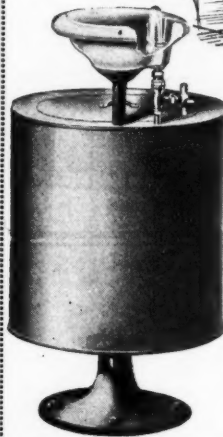
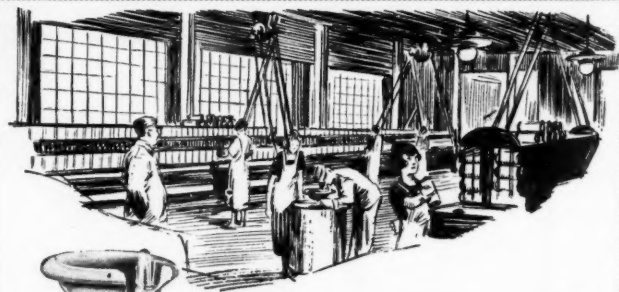
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Fig. 2

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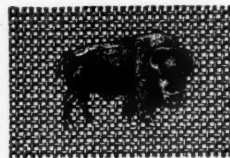
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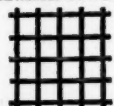
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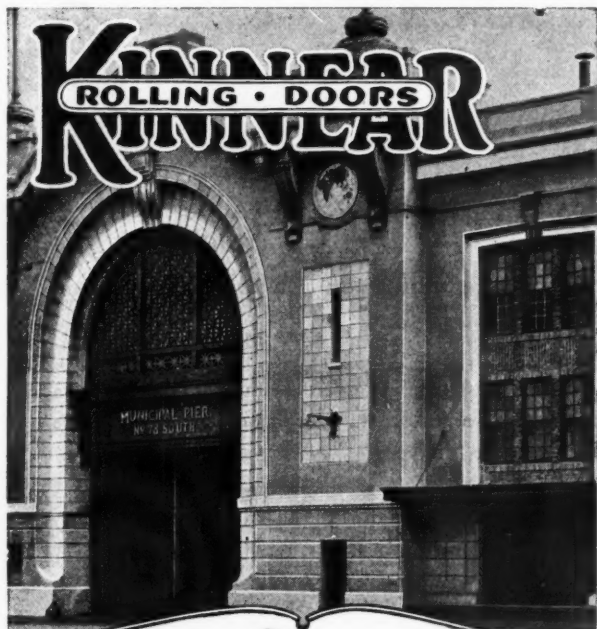


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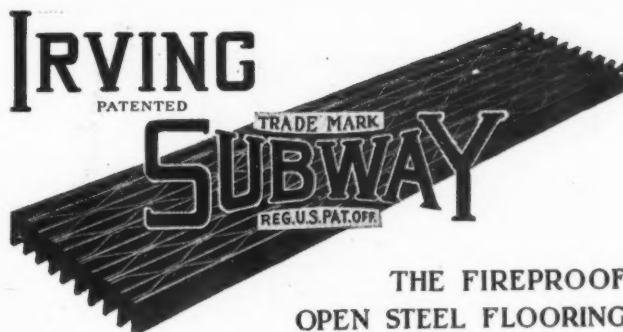
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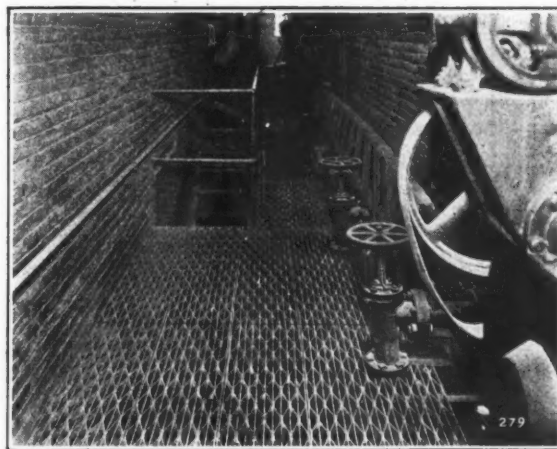
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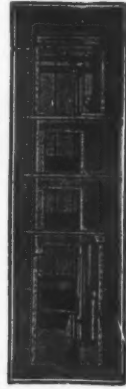
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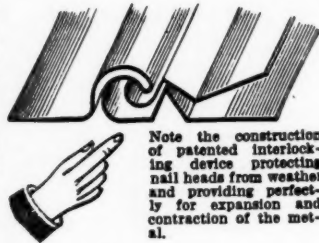
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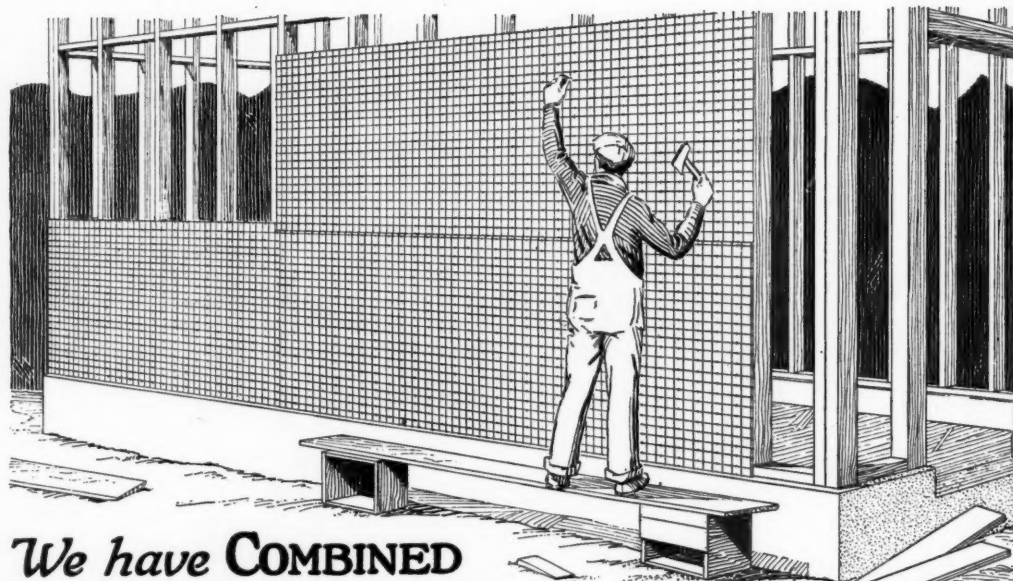
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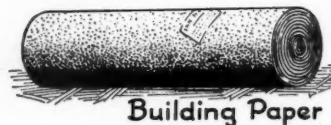
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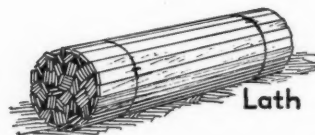
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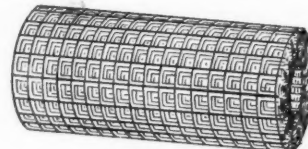
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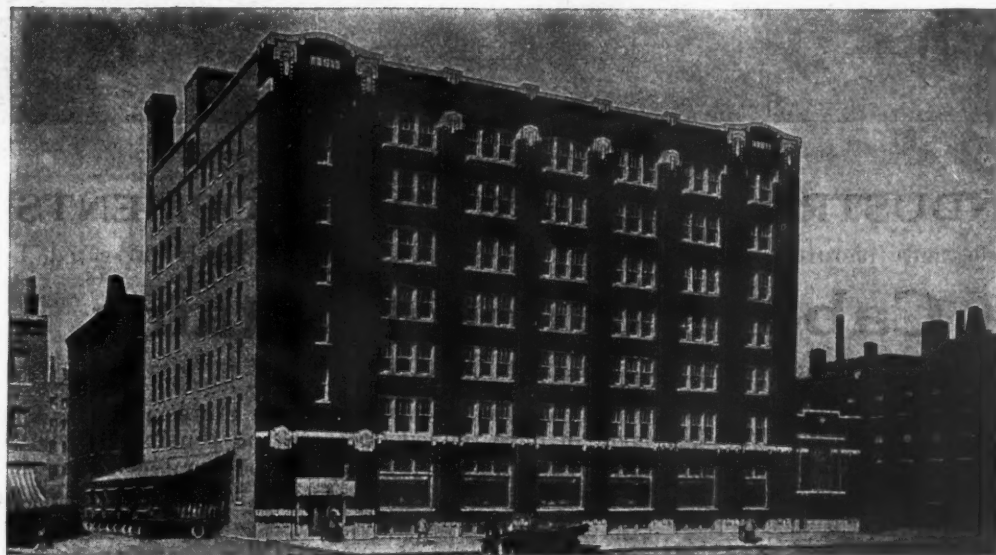
Doors and Millwork

WHOLESALE

MORGAN MILLWORK CO.

113-129 West North Ave., Baltimore, Md.

Southern Yellow Pine Standard ~ Mill Construction ~



Wm. Hale Thompson Building, Chicago, Ill. A. S. Alschuler, Architect. J. W. Snyder Co., Builders.
Standard Mill Construction, Southern Yellow Pine used.

Safety and Fire Resistance

THE Safety and Fire Resistance of the Southern Pine Mill Building have been demonstrated by actual experience in conflagration as well as in scientifically conducted fire tests. Heavy timbered Mill Construction buildings, fully sprinklered, are safe. Southern Yellow Pine posts, girders and heavy planks excel in fire resistance because of their density and hardness. Under intense and continued heat, it is practically impossible to destroy or decrease the usefulness of solid or closely built-up Southern Yellow Pine structural members of large size.

The factor of safety used in calculations of size of girders,

beams and posts is ample to offset the charring on the outside surface from fire and still leave sufficient strength to support the design loads. In fire, the timbers stay in place without warping, twisting or bending, preserve the structure and prevent loss of life.

This message is especially directed to those who, while recognizing the many exclusive advantages possessed by Standard Mill Construction of Southern Yellow Pine, have hesitated because of a lack of knowledge of its wonderful fire-resisting qualities.

For details, write to the Engineering Department of the Southern Pine Association.



Please Address Dept. 124

This is one of a series of advertisements on the use of Southern Yellow Pine in Standard Mill Construction.

Southern Pine Association

NEW ORLEANS

LOUISIANA



Housing Development at Hammond, Ind. J. C. Llewellyn, Architect, Chicago. All shingles stained with Cabot's Creosote Stains.

INDUSTRIAL HOUSING DEVELOPMENTS

can be made more picturesque and homelike, and the woodwork thoroughly preserved, by using

Cabot's Creosote Stains

"50% Cheaper Than Paint"

You can save one-half the cost of material and labor by using Cabot's Stains instead of paint on sidings, shingles or boards. They are made of pure refined Creosote (no benzine or other dangerously inflammable ingredient) which penetrates and preserves the wood, combined with the purest and strongest colors, that produce rich, handsome and lasting results. Your own workmen can apply them twice as rapidly as paint.

Send for samples of stained wood and full information

SAMUEL CABOT, INC., Manufacturing Chemists, BOSTON, MASS.

WE are Creative Designers
and Makers of Engravings
that give your Product
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*"Your Story in Picture
leaves nothing untold"*

PERFORATED SCREEN PLATES AND SHEETS

For Ores, Coal, Stone, Gravel, Cement, Sand, Clay, Cotton-Seed Oil Mills, Cotton Gins, Phosphate Mines, Fertilizer Plants, Cyanide Works, Chemical Works, Etc.

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The variety of our perforating dies, including round, square, slot and oval perforations, makes it possible to give immediate attention to any order of any size. The variety in uses has been carefully anticipated.

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PERFORATED METAL SCREENS

FOR ALL PURPOSES

Elevator Buckets, Conveyor Trough and Flights
Stacks and Tanks

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2445 West 24th Place
Tel. Canal 1459 CHICAGO, ILL.

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Cotton Seed Oil Works a Specialty

Send for Samples

ERDLE PERFORATING CO. Rochester, N. Y.

SLUICE GATES

Shear, Flap and Butterfly Valves
FLEXIBLE JOINTS

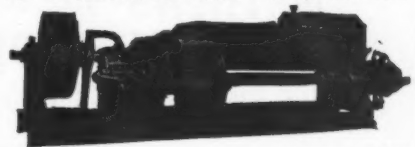
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2 River Street

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Complete line of
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chines for the manu-
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paving and fire brick,
drain tile, chemical
tile, hollow building
blocks, etc.



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GALLION, OHIO

Hammond-Byrd Iron Co.

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342 Madison Ave., New York City

CLAY WORKING MACHINERY

For Brick, Tile
and Block, from
smallest to larg-
est capacity.

Full line equipment.
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STATESVILLE, N. C.
U. S. A.**



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DIRECT HEAT DRYERS STEAM JACKETED

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EFFICIENCY ECONOMY DURABILITY
ROLL CORRUGATING A SPECIALTY

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SALEM - VA.**

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Wet Pans, (3 sizes).
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Gravity Elevators.
Sewer Pipe Dies.
Feeders.
Conveyors.
Potters Machinery.
Oak Cutters and Hullers.
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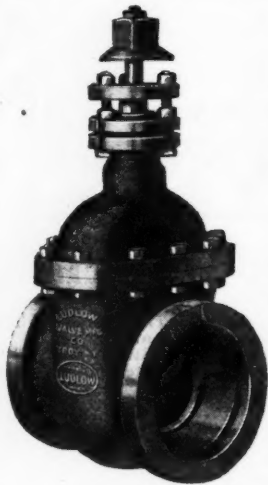
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LUDLOW GATE VALVES

Their simplicity is a mark of superiority



The internal mechanism of Ludlow Double Gate Valves consists of two gates and two bevelled faced wedges. The wedges are entirely independent of the gates—working between them.

Ludlow Gate Valves work equally well with pressure either side of Gate.

Made of iron and bronze of the highest grade by the most skilled workmen obtainable.

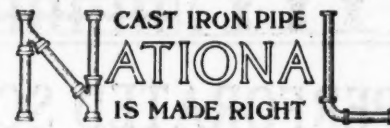
Southern Representative:

Wm. F. Wilcox, 1206 Fourth National Bank Bldg., Atlanta, Ga.

The Ludlow Valve Mfg. Co.
TROY, N. Y.

Branch Offices:

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General Office and Foundries
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**Manufacturers of Cast Iron
Water and Gas**

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By Sand Cast and deLavaud Processes. Fittings, Flange Pipe, Flange Fittings and Special Castings.

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were the pioneer Hydrants in the South, and today, after more than fifty years, continue to hold first place in the Water Works Field.

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PIPE

"USICAST"
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General Offices: Burlington, N. J.

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GENERAL FOUNDERS AND MACHINISTS

Manufacturers of

CAST IRON PIPE

For Water and Gas, Flange Pipe and Fittings

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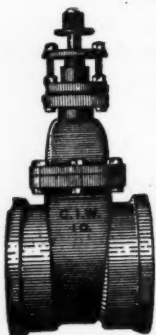
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**Fire Hydrants, Valves, Valve
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THE CENTRAL FOUNDRY COMPANY

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Birmingham

Dallas

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no packing

no calking

no bell holes

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**FIRE HYDRANTS and
STOP VALVES**

Water Works and Fire Department
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Flue Lining
Wall Coping
Stove Pipe

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Chimney Tops,
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SEWER PIPE

OF QUALITY

Made of Ohio River Fire Clay.

By test 43% stronger than competitors'. Send for Special Test Circular.

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CANNELTON, IND.

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Riveted Pipe, Penstocks, Stand Pipes,
Stacks, Tankage, and General
Steel Plate Construction.

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STANDARD WOOD PIPE

MORE DURABLE AND ECONOMICAL

Will furnish pipe to suit condition.

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STANDARD WOOD PIPE COMPANY - WILLIAMSPORT, PA.



Save 25% to 50% by using
Wyckoff Wood Pipe
instead of Cast Iron Pipe

Cheaper. Lasts as long. Delivers more water. Get catalogue
A. WYCKOFF & SON CO., ELMIRA, N. Y.

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ROOT WATER TUBE BOILERS SPIRAL RIVETED PIPE

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Works—Newburgh, N. Y. New York Office—Woolworth Building, 233 Broadway



Argument

can never alter the fact that

**McWane Pipe
Costs Less!**

It can be laid 3 times as fast for half the labor.
Sizes 1 1/4 to 6-inches. Get booklet M, prices,
and names of users near you.

McWane Cast Iron Pipe Co.
BIRMINGHAM, ALA.

Manufacturers of

McWANE PRECALCULATED JOINT PIPE CAST IRON

1871

1924

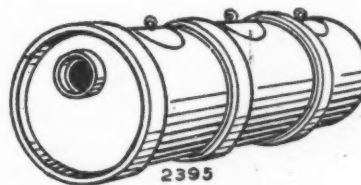
Clay Products of Superior Quality

Four Carloads of our Vitrified Clay Septic Tanks
are safe-guarding Nashville Chattanooga & St Louis
Railway employees against disease at Hollow Rock
Junction, Tenn., by providing proper sanitation
for their homes.

Write for Free book-
lets and prices.

**Chattanooga
Sewer Pipe
Works**

Chattanooga, Tenn.



2395



DURABLE
STRONG
AND
WILL NOT
RUST

MICHIGAN WOOD PIPE

Specified by leading engineers everywhere. It is econom-
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Insist on Michigan Pipe all the time.

Write for a copy of the Michigan Book.

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Madison Street BAY CITY, MICH.

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OKLAHOMA CITY, OKLA.: F. H. Loeffler, 105 W. 16th Street



OUTSTANDING FEATURES

Fewer working parts than any other steam pump made.
No external valve mechanism.
Only four working parts in steam end.
Entire valve mechanism exposed by removal of nine nuts.
Pump can be completely dismantled without disconnecting piping.

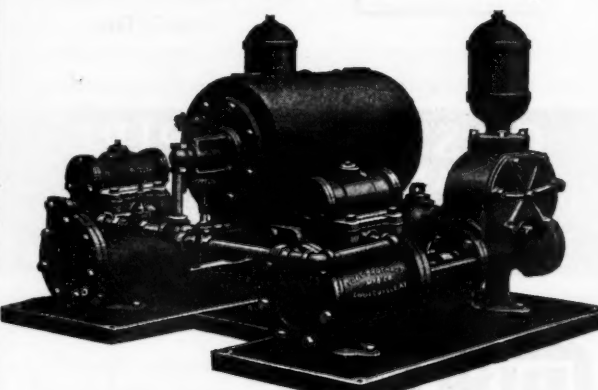
CAMERON DIRECT ACTING STEAM PUMPS

Accessibility and satisfactory operation of Cameron direct-acting steam pumps make them unequalled for general service or for use in the industrial plant and power house.
The water end is fitted with acid resisting material which assures protection against chemical action where corrosive liquids are handled.
For gritty water—as encountered in contracting work—the removable bushing is furnished which secures the greatest durability possible.
Cameron direct-acting pumps have been in use for 50 years and are still in active service.

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Double Automatic Feed Pump & Receiver
"Good Pumps since 1891"



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Smith-Vaile **PLATT** Pumps



Steam and Power Pumping Machinery

Pumps Aurora Pumps
Centrifugals

Horizontal and Vertical split open and Enclosed Impeller types. Deep well turbine centrifugals. Deep well power Heads.

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We Build

Turbine Blowers
Steam Turbines
Centrifugal Blowers
Stoker Fans
Carling Turbine Blower Co.
Worcester, Mass.




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EMERSON FOOT VALVES AND STRAINERS

For Contractors, Mines, Quarries, Cofferdams, and all Rough and Ready Service. *Immediate Deliveries*

The Emerson Pump and Valve Co., Inc.
ALEXANDRIA, VA.

ERIE CENTRIFUGAL PUMPS
For Every Service



Fig. 267
SINGLE SUCTION WATER PUMP
BELT, MOTOR AND ENGINE DRIVE

ERIE PUMP AND ENGINE WORKS
154 Glenwood Ave.
MEDINA, N. Y.



Fig. 239
ENGINE DRIVEN
CONTRACTORS PUMP

SAND PUMPS
ACID PUMPS
MINE PUMPS
SEWAGE PUMPS
FIRE PUMPS
BOILER FEED PUMPS

ALDRICH PUMPS

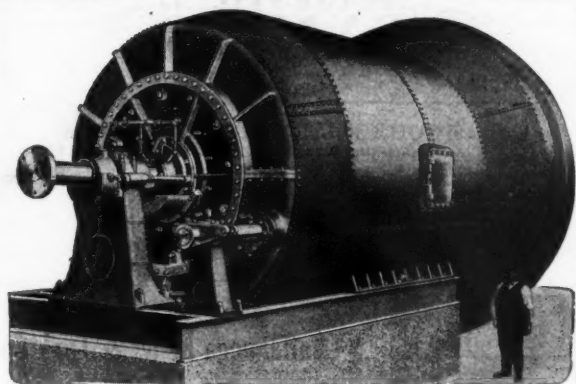
THERE'S AN ALDRICH PUMP FOR EVERY SERVICE

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THE ALDRICH PUMP CO.
FOOT OF GORDON ST. ALLENTOWN, PA.
SALES AGENCIES IN PRINCIPAL CITIES

LEFFEL

TURBINE WATER WHEELS



HORIZONTAL TURBINE DESIGN 19

HIGH SPEED, HIGH POWERS, HIGH EFFICIENCIES

"All of our turbines are designed and built to suit location and requirements, by engineers and experts who have had years of experience in this particular line of work. We fully guarantee our Turbines and results developed.

Bulletins Forwarded Upon Request.

The James Leffel & Co., Springfield, Ohio

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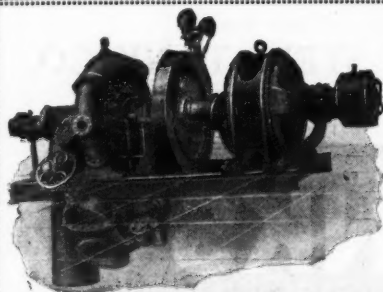
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BOSTON, MASS. 80 Boylston St.
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MINNEAPOLIS, MINN. Plymouth Building
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PETERBOROUGH, ONT., CANADA. William Hamilton Co., Ltd.

PUMPS

A type for every service

THE GOULDS MANUFACTURING COMPANY
Seneca Falls, N. Y.

GOULDS



There is a
SMITH TURBINE
of one type or
other to fit the
conditions of
almost every
water power.

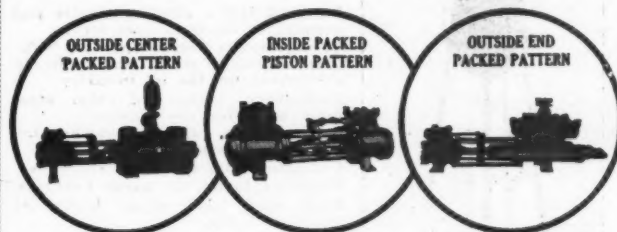
*Write Department "M"
for Bulletin*

Accompanying cut shows small direct connected Turbine and Generator developing 275 H. P.; 900 R. P. M. under 170 foot head

S. MORGAN SMITH CO., YORK, PA.

Branch Offices: Boston, Chicago, Atlanta, Montreal

DURABLE DUPLEX STEAM PUMPS



NEW YORK SALES OFFICE, 141 BROADWAY
Send for Catalog No. 197

DEAN BROS. CO. INDIANAPOLIS.

ROTURBO CENTRIFUGAL PUMPS

Manistee Iron Works Co., Manistee, Michigan

THE LAYNE WATER SYSTEM

Well Water-Supply Guaranteed

Lift 10 ft. to 1000 ft.

MINE DRAINAGE—WELLS—PUMPS—SCREENS

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WELL DRILLING AND DEEP WELL PUMPS

We have a Very Efficient System of Pumping that we wish to tell you about. Write for Catalog M.

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ARTESIAN WELLS

**ANY SIZE ANY DEPTH
DRILLED ANYWHERE**

VIRGINIA MACHINERY & WELL COMPANY, Inc.
Dept. M. R. **RICHMOND, VA.**

TRANSIT PUMPS

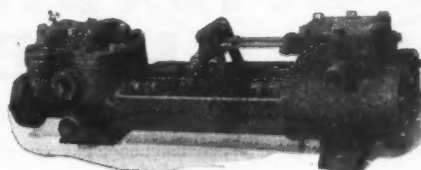


Fig. 106

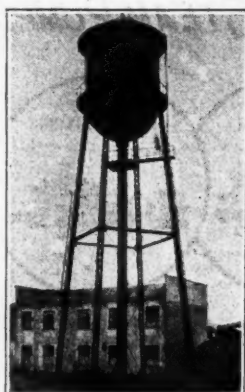
Dependable, hard-working units that give long life and little trouble.

Tell us your requirements and

we will quote you on a pump suitable for your work.

NATIONAL TRANSIT PUMP & MACHINE CO.
OIL CITY, PENNSYLVANIA

District Offices: New York, Philadelphia, Tulsa, Pittsburgh, Cleveland, Houston and Denver.



247

HORTON

Elevated tanks, steel reservoirs and standpipes for municipal service. Storage tanks, Hortonspheres, Wiggins floating roofs and refinery equipment for the oil industry. Gasholders, tanks and other steel plate work for gas plants. Surge tanks and penstocks for power installations. Conical-bottom tanks for railroads. Molasses tanks for sugar business. Steel plate work of all kinds for every industry.

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Established 1860

Incorporated 1907

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65 TO 30,000 GALLONS
HORIZONTAL & VERTICAL

SHARPSVILLE BOILER WORKS CO.
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EASTERN SALES REPRESENTATIVES FOR
WYDONALD OIL EQUIPMENT

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Stacks, Breechings, Kilns, Etc.
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NEW YORK PHILADELPHIA BALTIMORE BOSTON

MORRIS Since 1864

CENTRIFUGAL PUMP

Since 1864 Morris has been building Centrifugal Pumps, Hydraulic Dredges and Steam Engines. You can depend upon the Morris reputation.

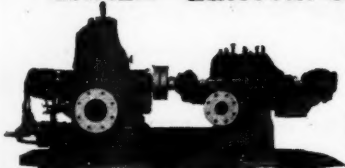
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Agents in Principal Cities

MCGOWAN DUPLEX STEAM AND POWER DRIVEN PUMPS

Built under rigid inspection

THE JOHN H. MCGOWAN CO.
CINCINNATI, OHIO, U. S. A.

EARLE - CENTRIFUGAL - PUMPS



For all purposes where
Centrifugal Pumps of the
better class are adapted

The Earle Gear & Mach. Co.
Philadelphia, Pa., U. S. A.

PULSOMETER STEAM PUMP

See large ad in 3rd issues and Resale Department 1st issues.
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PUMPS Backed by
PAIR COMPRESSORS The Pennsylvania Guarantee
A Pennsylvania Pump & Compressor Co.
EASTON, PENNA.



Chattanooga Boiler & Tank Co.
418 10th Street
CHATTANOOGA, TENN.

If made of Steel, we make it.
Tanks anywhere for any service.

**Steel Riveted Pipe
Standpipes
Tanks on Towers**

We make dye tanks and also manufacture special work for chemical plants



STEEL TANKS and TOWERS

For Water Supply
and Fire Protection

ANY SIZE ERECTED ANYWHERE

Manufacturers of
BOILERS AND ENGINES

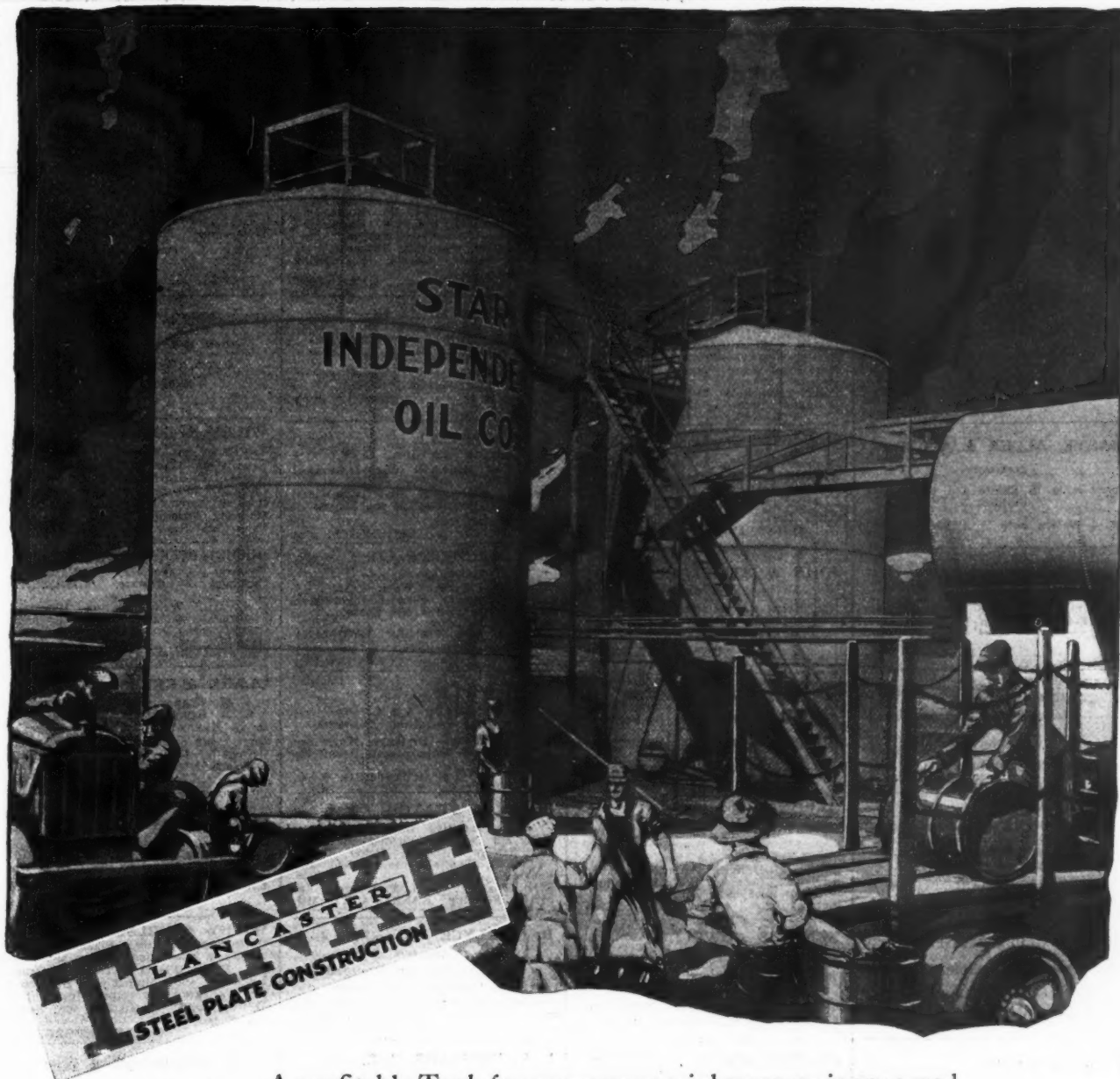
Write for prices

R. D. COLE MFG. CO.
NEWNAN GEORGIA

ESTABLISHED 1892
AIR-TIGHT STEEL TANK CO.
PITTSBURGH, PA.



STEEL TANKS—For pressure or plain storage—riveted, welded, or genuine copper-braced construction—the tightest, strongest, safest tank it is possible to construct by any known process.



A profitable Tank for any commercial purpose is governed by the facts in the case.

Is it to be a large Tank? Is it to be in, out, upon or under a building? What is it to contain—oils, inflammable materials, acids, water or chemicals? Are the materials to be stored under pressure or by gravity feed? Does the climate run to extremes of dryness, heat or cold? Will there be vibration?

No particular Tank is ideal under all conditions—but Lancaster designs and builds Tanks to meet any or *all* of these requirements?

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An experienced Lancaster Tank Engineer will co-operate with you in the selection of the Tank desired and demanded to meet the conditions. Write Lancaster.

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LANCASTER, PENNA.

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Wesley Building
Philadelphia

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C. E. SHEARER

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A. TEN EYCK BROWN

Architect

717-18-19-20 Forsyth Building

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Commercial National Bank Bldg.,
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Members of American Society of
Landscape Architects.11 E. 5th St. CHARLOTTE, N. C.
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Candler Building ATLANTA, GA.

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Textile Mills—Water-power Develop-
ments.

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Water Supply.

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Consulting Engineer
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Lexington Bldg. BALTIMORE, MD.**McDEVITT-FLEMING CO.**Engineers and Contractors—Specializing
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Structural, Architectural and Mechanical
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Hydro-Electric and Steam Power Plants,
Reports, Appraisals, Designs, Construc-
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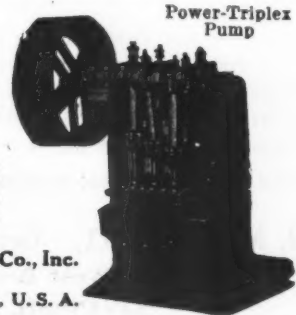
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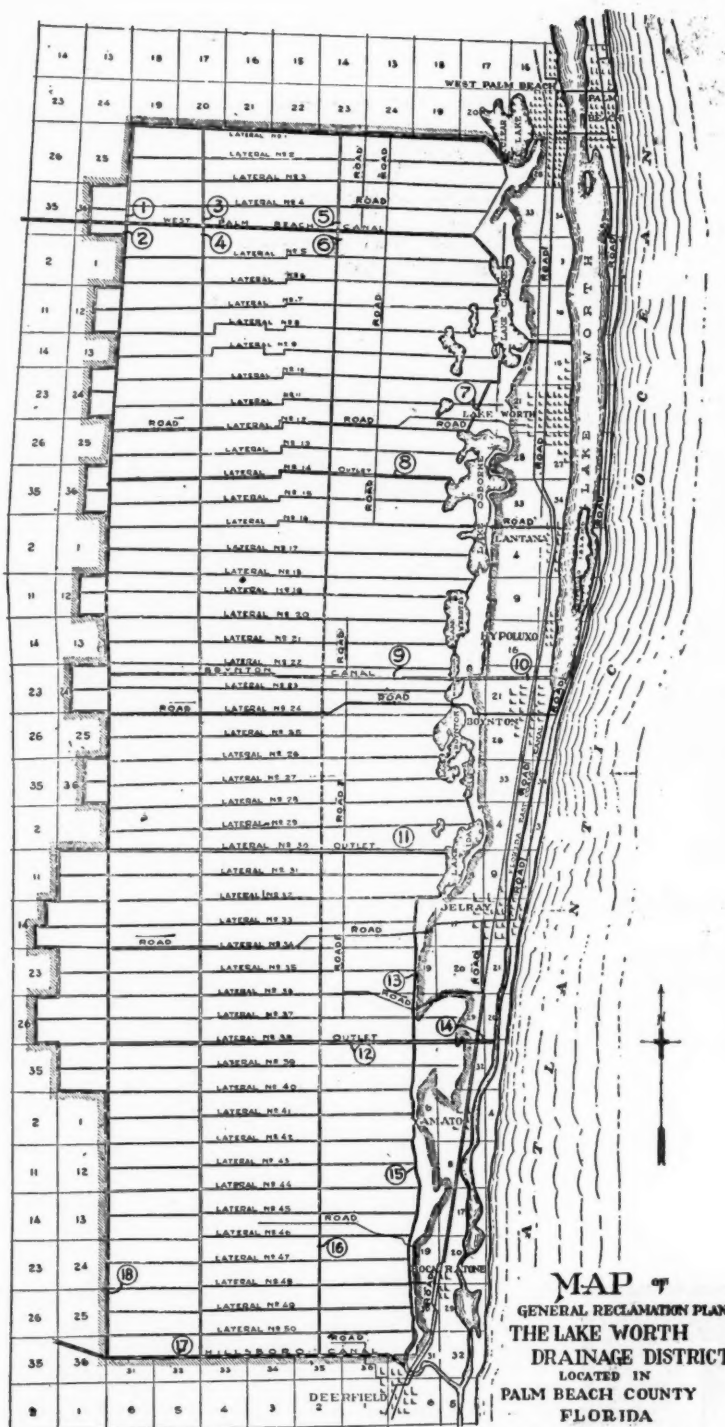
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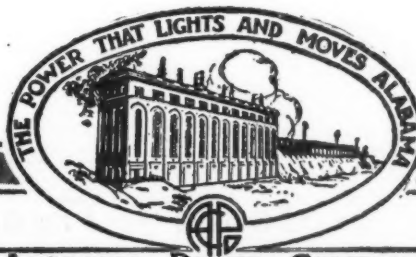
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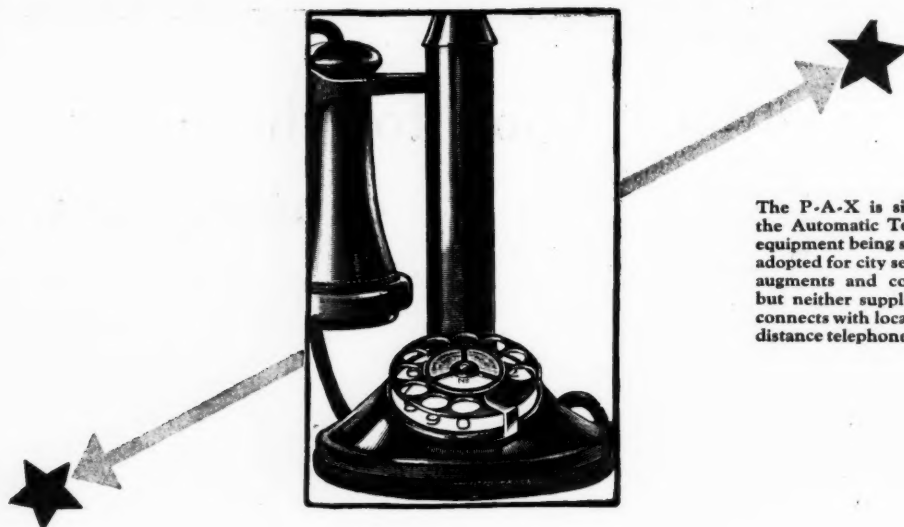


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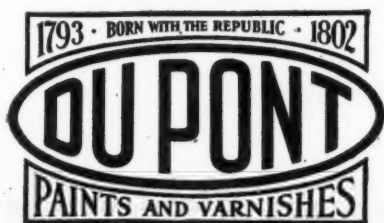
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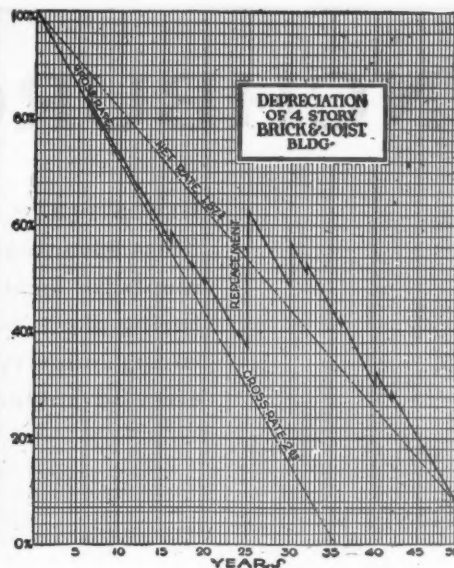
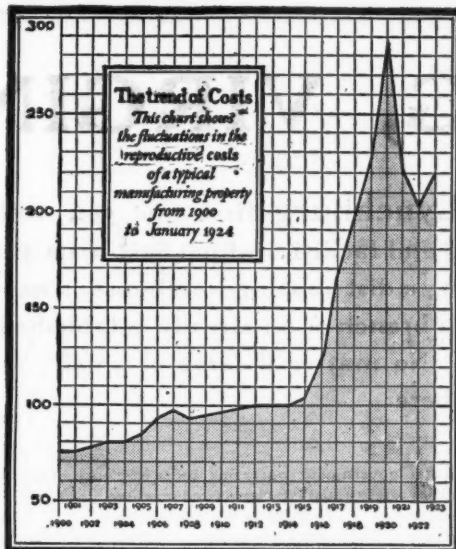
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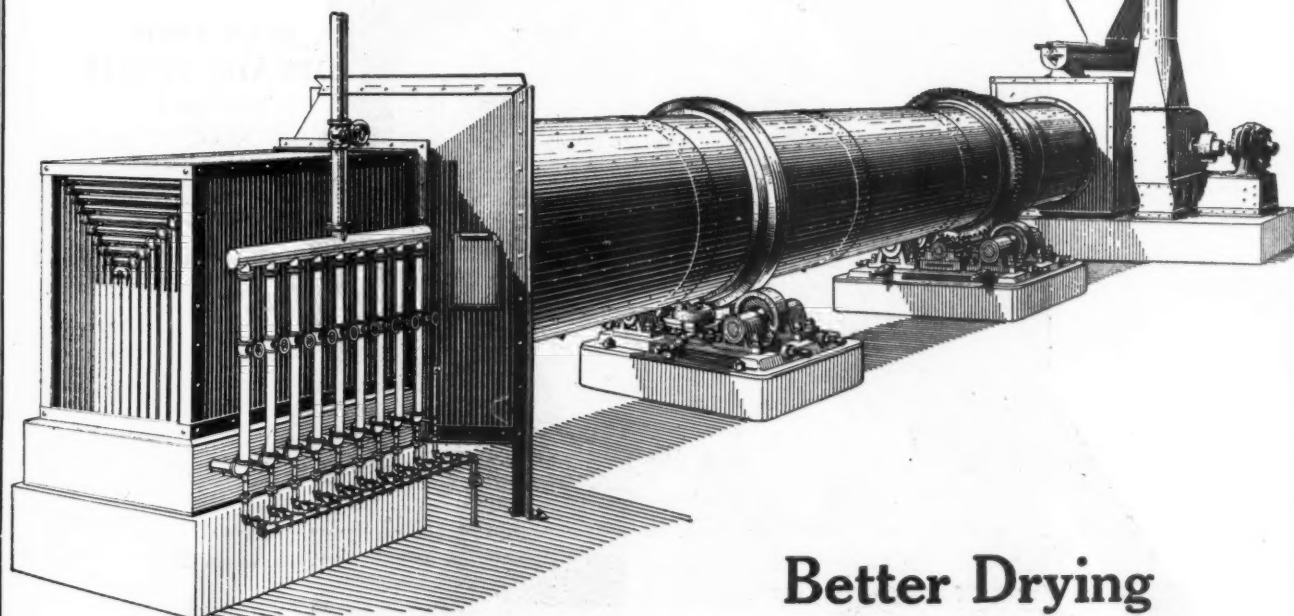


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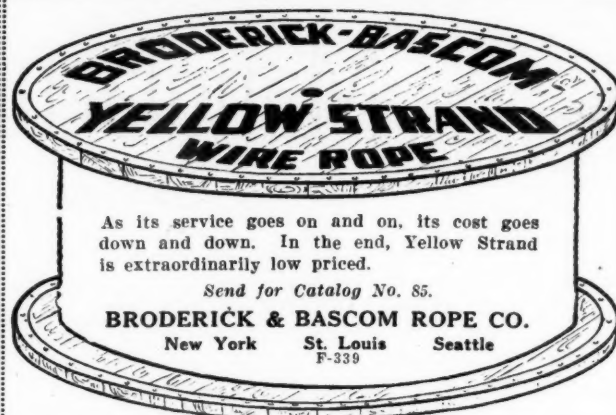
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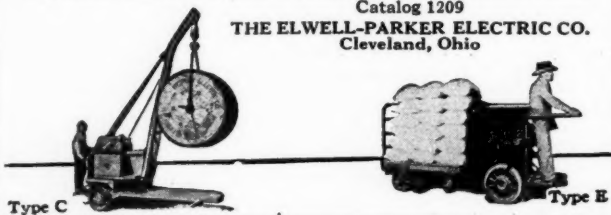


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Vol. LXXXV No. 11
Weekly.

BALTIMORE, MARCH 13, 1924.

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Dangers That Lurk in National Control of Education.

A DISPATCH from Washington to the Evening Sun of Baltimore states that the "most powerful lobby seen" is the one backing the \$100,000,000 bill for Federal education. This bill proposes to create a Federal Department of Education which would annually distribute \$100,000,000 of Federal tax funds to the various states, and the dispatch to the Evening Sun states that the lobby is headed by half a dozen officials of the National Education Association, accompanied by a dozen or more educators from all sections of the country.

"The efforts of the group backing the bill," it is said, "are flooding members of the Congress with a veritable barrage of letters from school teachers all over the country." Among those reported as active in this campaign from the National Education Association are Dr. George D. Strayer, Professor of Education at Columbia University; Mrs. Cora Wilson Stewart, Chairman of the Illiteracy Committee, and many others. It is also represented by half a dozen officials, while teachers and college professors complete the group.

The bill is reported as the most ambitious Federal Aid project yet advanced, and in its present form provides for an annual distribution of \$100,000,000. In addition to the proposed \$100,000,000 yearly dole to the states, there would also be the appropriations necessary for the activities of the new Department of Education, if established under this bill. The new department would be charged with conducting studies and investigations in a great variety of subjects, and in addition the Secretary of Education will be authorized to conduct research in such fields as in his judgment may require attention and study. After filling in all the forms required to carry on these studies and researches, he will still have something left in the form of posts as "educational attaches to foreign embassies," and the Secretary of Education will be given broad powers of supervision over the expenditures of Federal funds to be contributed to the various states under his direction.

A more dangerous bill was probably never presented to Congress.

It should cause a determined revolt of the people of the country against such a proposition.

The harm that could be done by this bill, if enacted, would be many times greater than any good that could possibly be accomplished. Men and women interested in eliminating illiteracy have permitted their judgment to be warped, or be clouded by a plan which has in it the seed of national destruction.

If a new department should be created, with a Secretary of Education having \$100,000,000 at his command at the start, there would be no limit to the ever-increasing demand

for still larger outlay. **But the money expended is the smallest possible item in the danger of this bill.**

Better would it be for \$100,000,000 in gold annually to be dumped into the bottom of the sea never to be recovered than to be expended by the National Government under a Secretary of Education for the expansion of our educational activities.

Once established it would, humanly speaking, be impossible ever to repeal the law, so great would be the power of the forces at work to live on the salaries and the emoluments of one kind and another thus created.

This Department of Education, despite all protestations to the contrary, would soon completely dominate the educational activities of the whole country. What it said would be regarded as the final word as to the management of schools and colleges. It would have the power to suggest the books to be used, the methods to be adopted, and tens of thousands, yes, hundreds of thousands of teachers whose salaries would be increased in this way would be active propagandists in behalf of this Department of Education, eager to learn what it desired to be taught and eager to show their subserviency to its suggestions. And this is not a reflection upon teachers as a class. It is only an expression of human knowledge that wherever men or women receive Government aid or salaries they inevitably seek to follow the policy outlined by that department from which they draw their salaries in part or in whole.

Germany, the mighty curse of the world, is one of the outstanding proofs of what a Federal Government control of education would mean. Out from a central Government of Germany went the influences which shaped all of the educational campaign of Germany during the last fifty years; and out of that line of teaching came the destruction of independence and self-reliance in education and in morals; and Germany's accursed war was the natural outcome of Germany's school and college training directed and controlled by Berlin.

Educators who are thinking more of the power of money in educational work than they are thinking of the future of the country, educators who are narrow-visioned and who are permitting illiteracy, or even lack of a full education to mar their ability to see straight and to think straight, may be counted upon as active workers in the propaganda for this bill. But the sowing of dragons' teeth would be child's play as compared with the evils which its adoption would bring into existence; and the sowing of the wind, fructifying into the whirlwind of destruction of the real, sound educational life of the nation, would bring forth not merely a whirlwind, but a typhoon of destruction, which would mean the end of states' rights, of independence in character, of independence in college training, and of all that makes education worth while. The education secured under such a system would be ten times worse than the darkest illiteracy which may exist in the darkest recesses of the most backward parts of America.

HOMESEEEKERS' RATES WHICH ARE WORSE THAN VALUELESS.

THE National Association of Real Estate Boards, representing the great real estate leaders of the country,—and these men are the builders of towns and cities, the men who do things,—in their recent annual meeting at Augusta, Ga., took very decided issue with the Southeastern railroads in regard to homeseekers' rates.

The MANUFACTURERS RECORD has from time to time vigorously criticized the homeseekers' rates as announced by the Southeastern Passenger Association as practically valueless and unworthy of the railroads, and calculated to create more ill feeling against the railroads than any good that could be accomplished by the rates adopted. These rates, as we have previously said are good only between April 1 and September 30, the very time that farmers in the North and West are too busy to get away in order to make a study of Southern potentialities. It seems almost absurd to think that intelligent men representing the railroads of the South would undertake to put into effect rates good for that period, which cannot possibly be of any material service to the South and which, therefore, would react and eventually cause the railroads to say that such homeseekers' rates are valueless, and it is true that they are valueless or practically so under the conditions now existing.

These rates are not only limited to the spring and summer period, but they are good only when parties of five travel on the same ticket. A more absurd proposition was probably never put forth by railroads. It is no wonder that passenger agents who are responsible for such actions create more hostility for the railroads than they will ever be able to accomplish good for the roads. It is this sort of spirit which has animated too many railroad officials. Moreover, when the chairman of the committee repeatedly sought permission to appear before the railroad officials having this matter in charge in order to present the reasons why such rates are not feasible, he was denied that privilege. In a letter addressed to the members of the National Association of Real Estate Boards, H. H. Richardson said that he found "neither the individual carrier members nor his association were willing to confer on the points of difference and had made up their minds to publish the rates as announced."

It is very rarely the case that a homeseeker can induce four other people in his community to join him in spying out the land in another section and then all five of them travel on one ticket good only for certain sections and for the limited time mentioned. If the Passenger Association which devised these rates had definitely made up its mind to discourage the development of the homeseekers' business for the South we do not see how it could possibly have been more successful than in the establishment of such rates, for the rates are valueless and would only serve to give these passenger agents an opportunity for saying that homeseekers' rates were not needed for the South, whereas the fact is that these rates offer no encouragement whatever to develop the homeseekers' business.

At the meeting of the National Association of Real Estate Boards held at Augusta, the following resolutions were adopted:

"Whereas:—The Committee on Homeseekers' Rates has reported that the railroads of the Southeast have agreed to restore homeseekers' rates in that territory commencing April 1 and continuing until September 30, 1924, and

"Whereas:—Report shows that there are three very material points of difference between our Committee and the Southeastern Passenger Association and the individual railroads, members thereof, and

"Whereas:—Our Committee has during the last few months made repeated requests upon the Southeastern Passenger Association and the individual members thereof for an opportunity for the Committee to present arguments in support

of their objection to the rules and regulations under which such homeseekers' rates are proposed; our Committee reports that these requests have been ignored.

"Therefore be it resolved: That we disapprove the attitude of the Southeastern Passenger Association with reference to these matters and their refusal to permit our Committee to go before them so that the points of difference might be amicably adjusted.

"Be it also resolved: That we therefore support our Committee in the stand it has taken on the following points of difference:

"1. That homeseekers' rates tickets should be placed on sale on the first and third Tuesdays of each month during the year.

"2. That the homeseeker should have the privilege of purchasing ticket to any point within the state to which he desires to go to look over the farming and agricultural opportunities.

"3. That party tickets for five or more traveling on the same ticket are impracticable for homeseekers for the reason that it is almost impossible for any one homeseeker to secure four others of the same mind to travel on the same train at the same time to the same point in the same state and to agree upon returning on the same day on the same train and to stop off enroute at the same points.

"Be it also resolved: That we sincerely hope that the carriers of the Southeast will get together with our Committee on this subject and arrive at an understanding materially profitable to all."

Unless these railroad officials definitely desire to ignore the efforts which have been made to secure intelligent and serviceable homeseekers' rates for the South, they might just as well recall the plan which they have announced and thus say to the South: We are not at all interested in securing settlers for this section or in giving people of the North and West the opportunity during the entire year to visit the South for the express purpose of studying its advantages as a location in contrast with the disadvantages of other sections.

WILL THE POLITICIANS SERVE THE PEOPLE OR WORSHIP PARTY IDOLS?

W. H. CLARK, President of the Clark Peanut Company, Inc., of Plymouth, N. C., in a letter to the MANUFACTURERS RECORD in regard to its fight for protection on peanuts writes:

"We have noted with much interest your efforts to maintain a protective tariff on peanuts, but feel that you should go one step further; make an appeal to every business man and farmer in the South, not to vote or work for any candidate for Congress or the Senate that will not pledge himself to work and vote for a protective tariff on peanuts.

"Our district is full of candidates now, running for Congress but all that we can get out of them is that they are running on the Democratic platform. Now is the time for advocates to get busy for a tariff on peanuts before the primary's are held."

We agree with Mr. Clark's suggestion that the voters in the South should find out what position congressional candidates are going to take in the matter of saving the peanut and kindred interests in this section from destruction, by the elimination of a protective tariff on them or of a tariff too low to give ample protection against Oriental peanuts.

The farming interests of the entire South should recognize that the tariff is an economic issue and that men who insist on keeping it in politics and treating it as in the past are doing this section an irreparable harm.

Why should the South merely for the fetish of the past, continue to worship free trade, as false for the good of this section as was the golden calf which Aaron set up to be worshipped by the people of Israel? And this free trade idol has been just about as destructive to the best interests of the South as the Aaron-made idol was to the best interests of the chosen people of old.

LET US AVOID THE MOB SPIRIT IN GOVERNMENTAL INVESTIGATIONS.

PRESIDENT COOLIDGE in his Lincoln Day address made a statement which is preeminently important to be remembered by the American people at the present time. It was:

"I want no hue and cry, no mingling of innocent and guilty in unthinking condemnation, no confusion of mere questions of law with questions of fraud and corruption. It is at such a time that the quality of our citizenry is tested—unrelenting toward evil, fair-minded and intent upon the requirements of due process, the shield of the innocent and the safeguard of society itself."

Commenting on this the New York Tribune says:

"These were perhaps the most solemn words of an extraordinary speech—as noble and eloquent a message as a President has delivered in this city in living memories. They deserve to be read and heeded by every American. It is easy to sow suspicion. Distrust spreads like wildfire. Yet a family, a community, a nation can exist only through mutual trust. Destroy belief in the common honesty of American public life, and there is no solid foundation for government left. The truth, the whole ugly truth, must be brought out. But let it not be exaggerated by partisan outcry or malicious gossip. When that truth is all revealed we are confident, and we think the American people are confident, that corruption will prove as exceptional as Mr. Coolidge asserted it to be. In the meantime every level-headed citizen can do a public service of war-time importance by upholding the hands of the President, by setting his will and word against unsupported rumor and by facing every mob of lynchers with a calm refusal to be stampeded into forgetting the rules of common decency to one's fellow men."

We have come upon a time when hysterics endangers the welfare of the country. Where crime has been committed it should be prosecuted and punished to the extreme, whether it be bribing by oil men or accepting of bribes by officials. Whether the guilty be Republicans or Democrats, whatever may be their position, those who have been guilty of bribery or of accepting bribes should be punished to the extreme limit of the law, not only because of their own acts but because of its influence in keeping others from following their evil example. And while pursuing this oil investigation it would not, we think, be amiss to investigate and see if any relation can be traced between American oil interests and revolutions in Mexico during the last ten years. Some people have thought that the constant turmoil in Mexico during that period was possibly due to the warring interests of American oil companies. We are not prepared to accept that view but we would, at least, be glad to have this fact brought to light if it be true.

This hysterical spirit of the country at the present time is very closely akin to that of the mob spirit, which runs wild in lynching or kindred activities to appease its thirst for blood. The orderly processes of Congressional investigation and of legal prosecution should be permitted to have their way, rather than the wild mob lynching spirit which is in evidence throughout the country in regard to affairs in Washington. It is altogether probable that some men have used their high office for criminal activities in their effort to enrich themselves at the expense of the country, but to assume that every man who has in one way or another been employed by oil people is necessarily a crook, reflects more upon the intelligence of the country than it does upon the man charged with guilt which has not yet been proven.

It is not to be supposed for a moment that every man who accepted retainers or fees in representing oil interests by that very fact condemned himself to political oblivion, nor is it to be assumed that because this man or that man, of one party or the other, has had his name dragged into the oil

scandal, he is forever eliminated from public confidence. This is a situation in which men of both parties are involved, and the partisan spirit that is rampant, each party trying to out-do the other in vilification of their opponents, is discreditable to both parties and to all people who follow the lead of such activities.

Until the courts have decided that a man has committed a crime for which he should be punished, the mob spirit should be suppressed whether it be in the case of an individual criminal, whom the mob is seeking to lynch physically, or in the case of men who are being mentally lynched without a trial. When men have been proven guilty, and that is a matter for the courts and not for the mob spirit to decide, punishment should be meted out to them in proportion to their criminality.

We do not believe that everybody in Washington is corrupt, that all the men who have accepted legal employment from oil companies should be hounded merely by reason of that fact, with a venom like that of a mob pursuing a man who has committed an outrage, neither do we believe that either party should seek, purely from partisan reasons, to persecute men in the other party. Both parties are doing it, but it is inhuman and it arouses among the people of all classes a feeling that everybody in Washington is corrupt and everything there is rotten.

The MANUFACTURES RECORD believes that there are more good people in Washington than bad ones; it believes that there are more good people in the country than bad ones, and that however many mistakes legislative bodies may make, however many demagogues or corruptionists may turn up here, there and everywhere, the American people as a whole are sound at heart and that a very large proportion of their legislators are equally as sound. President Coolidge's advice fits the situation as perfectly as words could express it.

COERCION OF EMPLOYEES SHOULD BE CRIMINAL OFFENSE.

IT is a fortunate thing for the country that the Aeolian Company of New York so promptly dismissed from its employ its vice-president who issued a statement to all of the employees of the company, requesting them to write to their representatives in Congress expressing their desire for the passage of the Mellon Tax Bill and for the defeat of the Bonus Bill. The most amazing thing which we have ever seen in such a connection was the statement with which the letter addressed to the employees closed:

"We shall check up our payroll within the next couple of weeks to find out those who have written and those who have not."

Without exception we think that is the most dastardly statement ever issued by an American business man to his employees, and it is well for the company, and for the country, that it resulted in the immediate discharge of the man responsible for it.

If any other employing concern in this country should ever dare to make a threat in this way for the purpose of forcing its employees to vote for any particular legislative action, or to oppose it, as in this case, it should take warning. No employer has any right to dictate to his employee how he shall vote on great public issues; and the threat of a discharge unless an employee votes in the way his employer desires ought to be made so criminal that the man guilty of it would have to spend a term in the penitentiary where he rightly belongs. It matters not whether one may favor or oppose the Mellon Tax Bill, or the Bonus Bill, any attempt to control public sentiment or votes in such a way as this ought to be made criminal.

We are glad the Aeolian Company people had sense enough to act immediately.

OVER 64 PER CENT OF THE COUNTRY'S CROP VALUE INCREASE OF \$1,008,000,000 IN THE SOUTH.

FARM crops in the United States last year were valued at \$9,953,000,000 and animal products \$6,111,000,000, reports the Agricultural Department. According to these figures the aggregate value of all agricultural products in 1923 was \$16,064,000,000 compared with \$14,604,000,000 reported in 1922, or an increase of \$1,460,000,000 in the value of agricultural products last year over the year before. Making an allowance of \$3,860,000,000, which is the estimated value of crops fed to live stock, the Department of Agriculture states the aggregate value of crops and live stock products, including animals raised, produced last year is estimated at \$12,204,000,000, or \$960,000,000 more than a similar estimate for 1922.

The crop value last year was larger than for any year prior to 1917, and larger than for 1921 and 1922. The value of live stock products exceeded that for every year before 1918, and also for 1921 and 1922. The increase in crop values of the country in 1923 compared with 1922 amounts to \$1,008,000,000, and animal products increased during this period by \$452,000,000.

The items making up the total estimated value of crops are as follows:

	1923	1922
Cereals	\$3,793,000,000	\$3,571,000,000
Cotton lint and seed	1,769,000,000	1,306,000,000
Hay and forage	1,480,000,000	1,399,000,000
Vegetables	1,089,000,000	894,000,000
Fruits and fruit products	681,000,000	692,000,000
Farm forest products	318,000,000	305,000,000
Tobacco	299,000,000	289,000,000
Legume seeds	175,000,000	165,000,000
Sugar and syrup crops	142,000,000	128,000,000
Seeds for planting, clover, etc.	38,000,000	48,000,000
Flax fiber and seed	37,000,000	22,000,000
Other crops	132,000,000	126,000,000
	\$9,953,000,000	\$8,945,000,000

The groups making up the total estimated value of live-stock products, including animals raised are as follows:

	1923	1922
Animals raised	\$2,397,000,000	\$2,574,000,000
Dairy products	2,566,000,000	2,085,000,000
Poultry products	1,047,000,000	918,000,000
Wool	87,000,000	69,000,000
Bee products	11,000,000	11,000,000
Other animal products	3,000,000	2,000,000
Total	\$6,111,000,000	\$5,659,000,000

Taking the total value of all farm crops in the South in 1923, estimated at \$4,188,000,000, figures for live stock products not being available by states at this time, the South last year had an increase in crop values alone of over \$650,000,000. Therefore, the South's increase in crop values last year is over 64 per cent of the total increase in the crop values of the whole country. The South's cotton and cotton seed crop in 1923 amounted to \$1,769,000,000, or an increase of \$463,000,000 over the year before, and this combined with an increase of \$92,000,000 in the South's corn crop last year, makes a total increase in these two Southern crops of \$555,000,000 which is over half of the total increase in crop values for the whole country.

The price of cotton in the South last year helped to make the South the most prosperous section of the United States while the distress of wheat growers, particularly in the one-crop wheat areas of the far West, is strikingly shown by the estimate of the value of the 1923 wheat crop which is \$726,000,000 compared with \$874,000,000 in 1922, and with \$2,080,000,000, in 1919. Corn was the largest single item of value, being \$2,222,000,000 compared with \$1,912,000,000 in 1922. Oats had an estimated value of \$539,000,000 compared with \$479,000,000 in 1922.

Apples stand out in the fruit group with an estimated value of \$201,000,000 compared with \$200,000,000 in 1922. Potatoes led the vegetable group with an estimated value of \$340,-

000,000 compared with \$264,000,000 in 1922. Truck crops were valued at \$246,000,000 compared with \$209,000,000.

Swine was the outstanding item of value among animals raised, being estimated at \$1,145,000,000 compared with \$1,273,000,000 in 1923. Cattle had an estimated value of \$924,000,000 compared with \$975,000,000 the preceding year.

The value of milk sold was the largest item in the dairy products group being \$911,000,000 compared with \$722,000,000 the preceding year. Milk consumed on farms had an estimated value of \$785,000,000 compared with \$635,000,000 in 1922; butterfat sold was estimated at \$379,000,000 compared with \$324,000,000, and butter made on farms \$246,000,000 compared with \$220,000,000.

Eggs produced were valued at \$602,000,000 in the poultry products group, compared with \$512,000,000 the preceding year. Poultry raised was valued at \$445,000,000 compared with \$406,000,000.

CHICAGO TRIBUNE ON IMMIGRATION.

SECRETARY HUGHES has, we think, made a very serious mistake in apparently seeking to lessen the restrictions on immigration. We cannot understand how any American, leaving his country and thinking of its future, can by any possibility be in favor of continuing to crowd this country with aliens who can never be assimilated.

One of the leading daily papers of the country, which has long foreseen the evil of immigration and learned by personal experience in its own city what it means to have foreign stock exceed the American stock, is the Chicago Tribune. In commenting upon some statements recently made by Secretary Hughes in connection with the matter of immigration the Tribune said:

"Long and careful study of the course of immigration in this country, of its effect upon American political, economic, and social life, and upon its tendencies, has convinced Chairman Johnson of the House immigration committee, the committee itself, and, we believe, the great majority of American citizens, that the flood of aliens to the United States must be restricted and selected. We have ample reason to have confidence in this belief, and to take alarm at the prospect of any other course.

"Such another alarming course is that contained in Mr. Hughes' suggestion that no quota restrictions should apply to any American republic. That, of course, is a friendly gesture covering the whole western hemisphere, but it is a dangerous one. We already have heavy immigration from Mexico. These Mexicans are no more assimilable than are Italians or Greeks or Poles. Similar immigration from Central or South American republics would fit into American life little better than would aliens from Portugal, Spain, or Bulgaria. True, they do not seek to come in such numbers, but the principle is the same. The whole point of the bill must be to reduce greatly the numbers of immigrants and to select the quality more carefully to comport with American needs. We trust no suggestions from Secretary Hughes will cloud that point."

CO-OPERATION NEEDED.

A SOUTHERN business man in a letter to the MANUFACTURERS RECORD referring to a statement recently made by B. C. Forbes in regard to one of Florida's needs, writes:

"Mr. Forbes thinks that Florida needs co-operation. I think all of our states need it. What they need worse than that, however, is more intelligent attention to the fundamentals of economic and industrial questions. Intelligently edited magazines do not receive the attention they deserve. Sensational newspapers and trivial magazines have almost unfitted our people for arriving at quick and sane conclusions. They often get a right result, but at the expense of time and effort."

A BLUNDER OF THE NEW YORK TIMES REBUKED.

IN defending the South against a slur in the editorial columns of the New York Times, the editor of the MANUFACTURERS RECORD wrote to the Times as follows:

"In your issue of February 29 in an editorial entitled, 'Extremely Revised,' you use what is an exceedingly unfair criticism of Southern cotton manufacturers when you say 'the hardest boiled employer of a Southern cotton mill.'"

"That is an insult to the finest class of business people in America, if one is to judge by the work which they have done for the betterment of the conditions of their employees. It is, I think, quite safe to say that no other industry in the world's history has done as much, in proportion to its capital and the people employed, for their betterment and for educational advantages and for the development of good living conditions as have the cotton manufacturers of the South. These men instead of being, as you say, 'hard boiled,' are men, almost without exception of the finest character, intelligent, educated, Christian gentlemen.

"To a large extent they have built attractive mill villages with comfortable homes, provided with baths and other conveniences. Nearly every home is located on a plot of ground large enough to afford room for flowers and for vegetables and these people are encouraged to raise vegetables and flowers and to beautify their places. In these mill villages the companies have built at their own expense fine, and in many cases costly, Young Men's Christian Association and Young Women's Christian Association buildings. They aided in the building of churches, they have established day and night schools and swimming pools and play grounds to an extent which cannot I am sure be matched by any other industry in this or any other country, in proportion to the capital invested and to the length of time in which the industry has been established.

"For years the Southern cotton mills were viciously denounced by muck-raking magazines and newspapers. Let me illustrate it with a story. Some years ago one of our most reputable magazines published a lengthy article on Southern cotton mills, in which only the bad side of the industry was presented. The pictures illustrated the worst houses that could be found and the most sickly looking people. I criticized it as extremely unfair to Southern mills and pointed out that while here and there such conditions could be found they did not represent the industry. That was more than twenty-five years ago, when the cotton mill business in the South was in its infancy, and before it had accumulated capital for the improvements of late years.

"The writer of the article criticized was in the employ of the United States Government. She took strong exception to my criticism and came to see me. I called her attention to the fact that she had deliberately picked out only the evil side of the pictures of sickly looking operatives and reminded her that at that time most of these operatives had come out of mountain huts where they had few or no advantages equal in any respect to what they were then getting, even in the worst of Southern cotton mills.

"In reply she said that she wrote of the good side of cotton mill labor as well as of the adverse side but that the editor of that magazine had refused to publish the article until she took out all of the good side and left in only the adverse side. That magazine, be it remembered, was one of the foremost and most reputable monthlies in the United States. If that was true as to such a magazine refusing to publish anything but the most unfavorable presentation that could possibly be made, your readers can readily understand what sensational and muck-raking magazines and papers have done, but that the New York Times should in its editorial columns refer to 'the hardest boiled employer of a Southern cotton mill' must

necessarily shock your readers, and especially those who are familiar with the actual facts in regard to the superb work done by Southern cotton mills for the uplifting of their operatives."

FLORIDA EAST COAST RAILWAY TO DOUBLE TRACK AND THE SEABOARD TO HAVE A 200 MILE FLORIDA ROAD.

HENRY M. FLAGLER, creator of the Florida East Coast Railway, in an interview with the editor of the MANUFACTURERS RECORD, published on April 6, 1911, reviewing the remarkable progress of Florida and of the whole country, stated that he realized that the traffic on the East Coast Railway had already far outgrown its facilities. He stated that he was so assured of the necessity of double-tracking that he had offered to his officers to provide the money needed to double-track the whole system, but that they had felt that possibly by building many long side tracks they could avoid the necessity of calling upon him so heavily for double-tracking capital.

In that interview Mr. Flagler with a broad vision discussed the future of Florida and of the United States and indicated his own conviction as to the almost illimitable growth both of Florida and of the country at large. What he then outlined as an absolute necessity for his own road has been growing more and more apparent ever since, and now the work of double-tracking is to be done.

This decision of the Florida East Coast Railway management to double-track its entire line from Jacksonville to Miami, nearly 400 miles, to build a nineteen mile belt line around Miami and to greatly enlarge the amount of its rolling stock, is one of the most striking features of railroad work during the last ten years. It is probably the most ambitious enterprise in the railroad field undertaken in that time. The enterprise is in fact the biggest piece of railroad construction work which has been undertaken in the United States for a good many years. In this respect it will inspire confidence on the part of other railroad people to go ahead and carry out similar work.

All of the leading railroads of the South must be double-tracked and those which have not yet cut out unnecessary curves and reduced heavy grades should do so as quickly as possible. The growth of traffic on all of these roads leading to Florida is annually increasing more rapidly than the roads can provide facilities. They are now compelled to run trains with some thirteen to fourteen Pullmans, entirely too heavy to be handled without jarring and jolting the passengers to a most uncomfortable degree. Even under these conditions the travel to and from Florida and other Southern resorts is becoming so enormous that it is often difficult to secure Pullman accommodations to or from these Southern resort regions, except by making engagements a month or two ahead of time. So great, for instance, is the pressure upon the railroads for reservations to the North in March and April that many people when they go to Florida in November or December make their return engagements three or four months ahead of time.

The movement which the Florida East Coast Railway has undertaken means the beginning of a still greater work for the development of business and travel to Florida, but it also means that the other railroads covering Florida will inevitably be forced to follow its example and the sooner they get at the job the better it will be for them and for the development of the regions tributary to them.

The Seaboard Air Line as we recently announced will, in all probability, eventually operate as part of its system, a 200 mile line in Florida that is projected by an official of that company and which will greatly strengthen its strategic advantages and increase its freight and passenger business.

NEW YORK NATIONAL CITY BANK ON FLIGHT OF WESTERN WHEAT FARMERS.

THE National City Bank, of New York, in its monthly report for March discusses with a great deal more of intelligence and sympathy the causes which have brought about the depressed conditions in the farming regions of the West than most other bankers have done. In the course of its discussion of the subject the National City Bank says:

"The Norbeck-Burtness bill which proposes to create a government loan fund of \$50,000,000 to be loaned in sums not exceeding \$1000 to any individual, for the purpose of aiding the change to diversified farming, is said to have a good chance of passage, the influence of the administration having been given to it. The measure of course is a departure from common practice, although individual loans in emergencies have been provided through governmental agencies at times in the past.

"An emergency unquestionably exists in some localities where wheat has been the staple crop. Moreover, a fair case for some degree of governmental responsibility is made out by the proponents of this measure. They show that before the war North Dakota was making steady progress in diversified farming, and that not only was this progress checked by the war but previous gains were lost. It is stated that the United States Department of Agriculture through the force of county agents used direct persuasion to induce the farmers of North Dakota to cut out other crops, and put all possible acreage in wheat. This appeal of course had direct reference to the loss of Russian supplies to Great Britain and France, and the necessity for increased production elsewhere. While such efforts obviously were to meet a temporary emergency, and hardly could have been interpreted otherwise, it is affirmed that North Dakota by this time would be much farther along with diversification development than it is, but for the war and the appeals of the national authorities for more wheat."

It is true that the force not only of the Agricultural Department, but of the Government, was used to induce the farmers of the entire country to increase their acreage in foodstuffs as well as in cotton. During the period of inflation a number of leaders in the agricultural industry, including J. S. Wannamaker, of the American Cotton Association, himself a banker and cotton grower, asked the officials in Washington if the farmers of the country could in the spring of 1920 be urged to increase their acreage with the assurance that there would be no deflation for the purpose of restricting credit and breaking down prices. With that absolute assurance, as shown by many letters published by Mr. Wannamaker during the last few years, efforts were made North, South and West, to induce the farmers to put in the largest acreage that they could possibly cultivate. But the promises made were never kept. Like pie crust, they were apparently made to be broken; for there was a definite effort to break down prices by restricting credit.

The full details of the celebrated secret meeting held on May 18, 1920, in which during an entire day the Federal Reserve authorities from all parts of the country under the leadership of the Governor of the Board, planned a definite campaign for this purpose, were published in the MANUFACTURERS RECORD of February 22, 1923.

The National City Bank is, therefore, correct in stating that the farmers increased their acreage at the request of the Government. Not only was this done by wheat farmers, but by cotton growers and others; and the chaos which came, and which has resulted in the failure of tens of thousands of farmers and in the failure of more than 1500 banks in the Northwest and of a great many in other sections, was

due directly to the Government having urged inflation in agricultural acreage, and then bringing about deflation in agricultural prices.

We are glad to see that the National City Bank has had the judgment and the common sense to state the case and show how the farmers were misled by that campaign. In view of the erroneous positions taken by the National City Bank on many economic questions in times past, it is good to see that it has at least been able to see something of how the Western wheat farmers were treated; but their treatment is not different from that of all the farmers of the country.

HOW TO "SELL" COTTON TO THE WORLD.

THE Progress, an enterprising paper of Union, S. C., recently suggested that one of the serious troubles with the whole cotton situation is the lack of the right kind of publicity, in the language of the day, to "sell" cotton and cotton goods to the world. With that position we fully agree. Many times in the past the MANUFACTURERS RECORD has personally and through its editorial columns urged the manufacturers of cotton to recognize the possibility of developing specialized lines of goods and of creating a broad market by broad publicity. As a whole, however, the cotton manufacturers have never realized the importance of this.

For years Southern cotton manufacturers permitted themselves to be slandered and vilified in all the muck-raking papers and magazines of the land without any serious effort by adequate publicity, to offset this situation. So deep was the impression that these muck-raking articles made upon the world 25 years ago that even last week the New York Times in an editorial referred to the "most hard-boiled of cotton mill employers of the South."

In reply to a letter from Allan Nicholson, editor of Progress, as to the views of this paper upon the statements he had made, the editor of the MANUFACTURERS RECORD wrote as follows:

"I have often suggested to cotton manufacturers in times past that they should actively and aggressively push cotton goods before the country, and last year when prices of cotton began to advance I pointed out that the manufacturers ought to unite in a broad publicity campaign to make the reason for these high prices fully understood, and thus to encourage the consumption of cotton goods. But the cotton manufacturers in all parts of the world have never, excepted to a very limited extent, undertaken to develop any larger demand for cotton goods. They seem to have accepted the idea that cotton goods would sell themselves but that is an erroneous basis. There is no more reason why cotton goods should not be advertised freely than why flour should not be advertised as heavily as is done by the big mills of the world.

"At this particular time the world is facing a cotton famine. We have had nothing equal to it since the Civil War. English manufacturers, following their accustomed plans when prices do not suit them, are doing their best to curtail the consumption of American cotton, and our American mills are making no particular effort to cultivate public sentiment in regard to the reasons why cotton should be much higher than it is. Even now, an intelligently handled publicity campaign could be made of immeasurable value to the whole cotton industry; and this will become more and more true if the South should happen to raise another fairly large crop of cotton.

"There is something else, however, needed in addition to publicity. There is something radically wrong with our entire financial system which must be righted when we have found out the cause. It matters not that bankers and others are claiming that all is well. The facts belie the statement. All is not well when the farmers in all sections are getting a beggarly price for their products as compared with the

cost of production or the world's supply, and when except in the matter of cotton the consumers are paying a large price. On the other hand the farmer is getting an unprofitable price, while the consumer is paying a price which makes it difficult for him to supply his actual needs.

"This is not an ordinary situation. The reason for it should be found, and then perhaps we might be able to see everybody making a fair living, instead of 'suffering' the poverty which so many are now enduring."

Mr. Nicholson's suggestion involves an adequate appreciation on the part of cotton growers and cotton manufacturers of what it would mean to properly advertise cotton and cotton goods and all the by-products of cotton. The infinite ramifications of this business, including the manufacture of over 200 articles by one company, out of cotton, the varied uses into which cotton-seed oil and other cotton-seed products enter, the limitless diversity of the cotton goods trade, furnish the basis for advertising probably not equalled by any other single industry in this or any other country. But no effort is made to present the truth about cotton to the cotton consumers of the world. No effort is made by cotton manufacturers to offset the ceaseless efforts of those who would break down the price of cotton, and who by constantly proclaiming that it is too high—and they did that when the price was 10 cents a pound as freely as they have done when it was 30 cents or more—cause buyers to hold off.

If the cotton consuming people of the world were given the facts intelligently and persistently there would be no difficulty in marketing cotton products, the products of the seed as well as of the lint, and creating for cotton per se a degree of favorable consideration by the world such as it has never received.

Cotton has been accepted ever since it was raised by slave labor, as though it were a product of slavery. People buy it as though it was something that they had to have, but without any appreciation whatever of its value or of the work involved in its production and its manufacture.

Mr. Nicholson has touched strongly on a point which we have often urged upon cotton manufacturers. We are glad to endorse his views and commend them to the consideration of every man in this country interested in cotton as a grower, seller, manufacturer, or consumer of the seed as well as of the lint, in the almost endless ramifications of this industry.

RAPID ECONOMIC BETTERMENT IN ITALY.

THE New York Times reports that "American bankers have been amazed at the rapidity of the economic and financial recovery of Italy" during the last two years, but nobody should have been surprised at such a change.

There never was any justification for the pessimism that prevailed throughout this country in regard to the economic destruction of Europe. Italy has not posed as a beggar for American financial help like Germany. It has not constantly proclaimed its own certain destruction unless saved by America, but quietly and aggressively it has gone ahead to suppress wild socialists, to put its house in order and rebuild its economic structure. Practically every other nation in Europe would have done the same, if it had not been made to believe that America was a country of boundless wealth which would be poured without end into the laps of the European nations, encouraging their people to continue in idleness and waiting for something to turn up from America, which they always hoped would be billions of American wealth.

The people who have been clamoring to force the United States into European affairs have been instrumental in retarding the real economic and financial recovery of Europe.

APPRECIATED COMMENDATION FROM TWO MINISTERS OF THE GOSPEL.

The Baptist Bible Institute,

New Orleans, La., February 14.

Editor Manufacturers Record:

Your gentle reminder to hand and I hasten to reply with a check to cover one year's subscription to the most remarkable periodical that comes to me, and I receive a numerous supply of papers and magazines every week.

I always read the editorials, all the building news and many of the contributed articles and every week I feel sure you have exhausted every thing and that the next week will be barren, and then here comes the next number with a world of new things, some of which stagger me. The coming of millions from the North to the South for investment, the building of magnificent hotels, churches, hospitals, schools, colleges, etc., etc. This is a high day in which we are living and you have come to the kingdom for just such a time.

We have in the making a special edition of the Baptist Record of Mississippi in which New Orleans is to be featured as the "South's Greatest Mission Field." It will contain much about the city in general, its history, growth, future, etc., together with many illustrations. I shall see that a copy goes to you since you are interested in all this.

Again thanking you for the courtesy extended to preachers in giving us the advantage of reduced rates and with best wishes for your continued prosperity, I am, etc.

(Rev.) R. P. MAHON.

Greenwood, S. C., February 14.

Editor Manufacturers Record:

It gives me the very greatest pleasure to enclose check for my subscription to your most excellent journal for another year. It appeals to me in many ways—most especially for its manly, outspoken convictions upon every subject that comes up for discussion, and I am pleased to say that I find the contention is always for great fundamental principles which are the very best for the citizen and the nation. If there is any one thing that I have a contempt for, it is the colorless sheet which, if it has convictions upon any great question, never expresses them.

I wish the MANUFACTURERS RECORD could go into the homes of all the citizens of South Carolina, as I am quite sure it would be the means of elevating the manhood of our great and growing state, growing not only older, but wiser and better I trust, with more determined effort to enforce law and order, especially the whiskey law, the violation of which lies at the bottom of most of our troubles.

(Rev.) G. W. GARDNER.

THE SOUTH DOES NOT WANT JAPANESE.

THE proposition which has been favored by some Florida people of inviting the Japanese who may leave California by reason of legislation in that state to come to Florida would be dangerous in the extreme if it should be carried out. Under no condition whatever should Florida fail to learn the lesson which California has learned, to its very great sorrow. However energetic and active the Japanese are, this country cannot afford to admit any material increase of their number. We have enough problems with alien races without intensifying it by bringing in more Japanese.

It seems incomprehensible that supposedly intelligent men in Florida would have failed to learn the lesson which California had to learn, and seek to bring Japanese to that state. If this should be undertaken, Florida would some day rue the blunder it had made.

Keep the Japanese out of the South. We have race problems enough in this section without adding another and a still more serious one.

FARM LOAN BANKERS FIGHTING LOW RATES OF INTEREST FOR FARMERS.

WE doubt whether a more absurd statement was ever issued in regard to taxation conditions than one put out by the Farm Mortgage Bankers Association of America, with headquarters at Chicago, in the course of which it is said:

"Much of the financial embarrassment of the banks in some of the Western States," said Congressman Dickinson of Iowa in a speech in the House "is due to the withdrawal of deposits for investment in tax-free securities," and more to the same effect.

We venture the assertion that but very little money was withdrawn from Western banks which has been used for investment in tax-free securities. The sections in which these banks were located did not have a sufficient amount of surplus capital to make the buying of tax exempt bonds an item of any importance, and the people in these communities were not rich enough to have tax exempt bonds a very serious factor in their tax income bills.

Two years or more ago a well-informed Montana business man fully acquainted with the conditions in all that section, repeatedly wrote the editor of this paper as to the inevitable outcome of the agricultural situation unless some remedy could be found. At that time he stated that in some of these Montana towns the stores carried signs "No checks accepted," because the banks were then in such a precarious condition that nobody knew if he accepted a check whether he could get the cash for it. Moreover, the amount of currency in these communities, according to the writer of that letter, was so small that it was extremely difficult to do business. Something was radically wrong, but it was not tax exempt securities. The people out there were struggling to live, and few if any of them were buying a sufficient amount of tax exempt securities to have had any effect whatever on the general agricultural condition which brought about most of these bank failures.

The Farm Mortgage Bankers Association in working against tax exempt securities is simply fighting to maintain high rates on farm loans by making it difficult for the Farm Loan Banks to secure money at a low rate of interest for the benefit of farmers—a narrow, selfish view.

\$100,000,000 Foreign Business With a Loss of Only \$9000.

New Orleans, La., March 5—[Special.]—With a loss of only \$9000, the Federal International Banking Company of New Orleans, one of the two Edge banks established in the United States, has loaned \$100,000,000 on commodities shipped to Germany, Austria and other foreign countries since it was organized. That is an amazingly small loss, thinks T. J. Caldwell, vice-president, nine cents for every \$1000 of business.

The loans mentioned enabled the exportation of at least \$200,000,000 of cotton, sugar, oil, lumber, grain and other commodities, cotton representing about 80 per cent of the total. Some of these commodities would have moved anyway, but in nothing like the volume.

The New Orleans bank is capitalized at \$3,150,000, and the stock is owned by 1200 banks in the cotton belt. Its organization grew out of the demoralized condition of the cotton market during the latter part of 1920 and the early part of 1921. Although the cotton market has long since recovered, the bank has demonstrated that it can be of great service to Southern interests at all times, and that there is a permanent place in the Southern business and financial world for such an institution.

The South has always been more interested in international trade than any other section of the country, says Mr.

Caldwell, who gives as his reason the fact that cotton has always been our greatest export commodity.

Mr. Caldwell sees in the figures on business and loss a self-evident comment on the innate honesty of man, and the proof that it is always possible to do business with an honest merchant, no matter what the economic conditions. It is true that to such countries as Germany and Austria, whose currencies were in such terrible shape, the cotton was paid for in gold deposited in neutral countries; but in a business done across 4000 miles of ocean and with foreign agencies, the factor of personal honesty is very important, even on this basis.

Farm Occupancy Changes as Reported by Department of Agriculture.

Twenty-seven per cent of the tenant farms and 6 per cent of the farms operated by owners changed occupants in 1922, says Agricultural Department. For all farms the average of shifting was 19 per cent. In nine Southern states more than a fourth of the farms, including those both of owners and tenants were operated by new occupants. Six states in which fewer than 10 per cent of the farms had new occupants in 1922 are those of the New England group.

In most of the corn belt and Western states, the percentage of new occupants ranged between 10 and 15. These sectional contrasts are very similar to those reflected in the census statistics of 1910 and 1920. The reported average period of occupancy for 1910 was 8.4 years. The estimated average for 1920 was 9.2 years.

Terms of occupancy vary widely among tenure classes of farmers. According to the census of 1920, owner farmers free of mortgage had been on their places an average of 14 years; mortgaged owners, 9.2 years; part-owners, 8.6 years; managers, 4.4 years; cash tenants, 3.8 years; and share tenants, 2.6 years.

Contributory causes of shifting in farm occupancy are: The extent to which farm land in this country has been bought and sold for investment and speculation; the rapid industrialization of the United States, which, besides producing a steady movement of population to the cities, brings about constant changes in market opportunities and necessitates readjustments in systems of farming and in sizes of farms; the greater extent to which different classes of farmers in this country climb from one agricultural status to a higher status; and the great fluidity of American economic and social life.

It is noted that this fluidity tends to create conditions which perpetuate shifting. Some of the shifting in this country is more or less aimless. Some of it is largely habitual. But much of the fluidity of American farm life, says the Department, represents desirable economic and social readjustments.

Portraying Advantages of Greensboro, N. C.

The Chamber of Commerce, Greensboro, N. C., is distributing an attractive, interesting and comprehensive folder entitled "Greensboro, Master Key to the South's Best Markets." It is copiously and finely illustrated and there is at the back an ingeniously drawn map which shows the rail connections of Greensboro and important shipping points, including seaports. The growth of the city during the last six or seven years is indicated by a statement which shows that in 1917 the bank resources there totaled something more than \$6,800,000 while in 1923 they were more than \$22,300,000. Deposits increased from something over \$5,400,000 to nearly \$21,000,000. Building permits in 1917 totaled \$865,000; in 1923 they totaled \$3,500,000. The assessed valuation in 1917 was \$15,000,000; in 1923 it was \$75,000,000. Politics are said to have been eliminated from the city government; in 1921 a city commission composed of business men took over the government and employed a city manager.

Strong Opposition Before Tariff Commission Against Reduction on Linseed and Vegetable Oils.

[Special Correspondence Manufacturers Record.]

Washington, March 10.

Testimony before the Tariff Commission March 5, 6 and 7 in the investigation into costs of production of linseed oil in connection with an application under the flexible tariff for a reduction in duty centered largely around the effect of the duty on growers of flaxseed and the effect which a change of duty in this commodity would have upon farmers who produce other materials entering into vegetable oils.

Vigorous opposition to the application for reduction was entered not only by domestic linseed oil producers but by representatives of farm organizations. The latter contended that because of possibilities of substitution of one vegetable oil for another in certain uses, a reduced duty on linseed oil would affect growers of cottonseed, peanuts and other commodities practically as much as it would affect the farmers of the northwest who grow flaxseed.

Because of the interrelation of the vegetable oils, the farm organizations asked that the linseed oil case be considered by the Commission in connection with the preliminary hearing of the order for investigation of cottonseed oil, soya bean oil, peanut oil, olive oil, coconut oil and certain fish and animal oils and fats, which began on the afternoon of March 7 to determine whether the list shall be expanded or contracted before field work begins.

The application in the linseed oil case was filed by the Bureau of Raw Materials for American Vegetable Oils and Fats Industries, which represents soap, paint, varnish and other manufacturers. The same Bureau filed the applications which resulted in the President directing an investigation by the Commission into other vegetable, fish and animal oils after the Commission had held the applications without action many months.

The duty on linseed oil is 3.3 cents per pound or 24 $\frac{1}{4}$ cents per gallon; the duty on flaxseed is 40 cents per bushel.

Representing the applicant, John E. Walker, attorney, read into the record figures contending that the difference in costs of producing linseed oil here and in Great Britain, the principal competitor, is 15.96 cents per gallon, and asked a reduction from 24 $\frac{1}{4}$ cents to this lower figure, or about 2 cents per pound. John B. Gordon, Washington representative of the Bureau, gave extensive testimony in behalf of the applicant, contending that the duty on linseed oil is too high. He presented a number of charts relating to prices and other factors and also in an effort to support his claim that the amount of duty in the last 25 years has had no influence on the acreage in flaxseed in the United States.

Efforts to draw from Mr. Gordon the membership of the Bureau proved abortive. He mentioned Proctor & Gamble and Colgate & Co., neither of which is a large consumer of linseed oil, if at all. When questions along this line were ruled out of order, Chas. W. Holman, secretary of the National Board of Farm Organizations, who headed the delegation of farm representatives at the hearing, declared that his object was to establish that it was not consumers of linseed oil who were behind the application in the case, but consumers of soya bean and other oils who hoped to profit by the effect upon these oils a reduction in linseed oil duty would have.

One of the surprises of the hearing was testimony by Henry L. Calman, former president of the National Varnish Manufacturers Association, who declared that the name of that organization had been attached to the application in the linseed case through a misunderstanding. His association, Mr. Calman said, had been willing to "co-operate" in a movement to reduce the duty on linseed oil but not to become an applicant. The association believes, he said, that the duty

probably should be 3 cents per pound, instead of 3.3 cents, but, personally, he said he was fearful lest the duty be lowered to the extent of destroying the domestic linseed oil industry, an event which would be disastrous to varnish manufacturers, he said. It was made clear, however, that there was no bad faith on the part of the Bureau in using the Association's name.

The principal testimony in opposition was given by Wm. O. Goodrich, Milwaukee, president of the Wm. O. Goodrich Co., and C. T. Nolan, New York, of the National Lead Co., as a committee representing linseed oil crushers. Their testimony was to the effect that the crushers have 8 $\frac{1}{4}$ cents protective duty out of the 24 $\frac{1}{4}$ cents per gallon duty, as 16 cents represents the pro rata duty of 40 cents per bushel on flaxseed. The flaxseed duty, which really is effective only about 30 to 33 cents per bushel because of the drawback allowed on exports of cake and meal made from imported flaxseed, is necessary to encourage American farmers to grow flaxseed, they testified. Mr. Goodrich produced figures to show that after the 1922 tariff became operative, flaxseed acreage in the United States increased 75 per cent. Flaxseed is a valuable substitute crop for wheat in the northwest, the testimony showed. Linseed oil producers made only an average of 3 per cent profit in 1923, the evidence disclosed. It was contended that costs of production in Great Britain are considerably lower than those in the United States.

Representatives of the applicant charged that domestic linseed oil producers dumped cake and meal abroad by selling below their domestic prices, and made up by selling their oil at a higher price. This was denied by the crushers, who declared in turn that linseed oil from abroad had been dumped here.

Testimony was unanimous that during operations of the 1921 emergency tariff, which increased the duty on flaxseed without a corresponding increase on linseed oil, the oil was imported heavily to the detriment of the domestic flaxseed industry.

Final arguments and briefs in the case will be submitted to the Commission in 30 days.

In opposition to a reduction in the duty on linseed oil, Representative J. H. Sinclair, North Dakota, told the Commission that the farmers of that State are vitally concerned in adequate protection of flaxseed. E. A. Brady, representing the National Co-Operative Milk Producers Association, the American Dairy Federation and other organizations, said that linseed cake consumers, the raisers of live stock, are interested in an adequate tariff duty as well as are flax growers. Benj. R. Benedict, professor of farm economics of the South Dakota Agricultural College, testified that wheat is proving a losing crop in the northwest and that farmers are turning to flaxseed but need sufficient tariff protection in this crop. Others testifying in opposition were O. S. Thompson, Baltic, S. Da., representing the South Dakota Farm Bureau Federation; Floyd L. Kelso, Ardmore, S. Da., representing the National Livestock Producers Association; E. L. Currier, of the farm management department, Montana State Experiment Station; W. F. Schilling, Northfield, Minn., representing the Minnesota Co-Operative Creamery Association; and J. H. Johnston, traffic manager of the Oklahoma Cottonseed Crushers Association, also representing the Oklahoma Farmers Union.

H. B. Miles, secretary of the Fair Tariff League, insisted that the public demands a reduction in the duty on linseed oil, terming the entire Fordney-McCumber act "a robber tariff."

Arguments and testimony as to whether the list of vege-

table oils, fish oils and animal oils and fats recently ordered for investigation looking toward possible reductions in duty under the flexible tariff should be restricted or expanded were begun before the Tariff Commission March 7, this preliminary hearing following immediately upon completion of the final hearing in the case of linseed oil, investigation of which has been completed by agents of the Commission.

As in the case of linseed oil, farm organizations lined up solidly against any reduction in duties. Various state organizations of the Farmers Union, the National Grange, the American Dairy Federation, the National Dairy Union, the National Co-operative Milk Producers Association, the National Peanut Shellers Association, the American Fish Oil Association, The Cotton Seed Crushers Association, the Southern Tariff Association and the National Board of Farm Organizations filed opposition to the entire case. If continued, the investigation should include the raw materials, as well as the oils, the opposition insisted.

The Commission has ordered for investigation, subject to change, cottonseed oil, soya-bean oil, peanut oil, olive oil, coconut oil, various fish oils and tallow and other animal oils and fats. The preliminary hearing was held to determine whether any of these could be eliminated or whether there should be additions to the list because of the interchangeability of oils for various purposes.

Before formal testimony started, brief statements in opposition to reductions in the duties were made by Representative H. S. Ward of North Carolina, Representative A. M. Free of California and J. J. Brown, commissioner of agriculture of Georgia, who declared that the investigation, regardless of its outcome, would depress the price of the farmers' products involved in the case and make it difficult for them to finance their growing crops. Delegate D. A. Sutherland of Alaska protested reductions in fish oils in behalf of the fishermen of Alaska.

The applicant whose petitions resulted in the President directing the Commission to investigate other vegetable oils after the Commission had taken no action in any case other than that of linseed oil was the Bureau of Raw Materials for American Vegetable Oils and Fats Industries, representing soap, paint and other manufacturers.

John Aspegren, of the Portsmouth Cotton Oil Refining Corporation, urged reductions, declaring that when Congress in the last tariff put a duty on the small quantity of oriental oils being imported, it cost American cottonseed oil producers their European market. F. M. Barnes, representing Proctor & Gamble, Cincinnati, declared the virtual embargo against oriental oils had increased the price of soap. W. E. Fackert, representing the receivers of the Southern Cotton Oil Company, declared peanut cake is in competition with cottonseed cake and that exports of the latter are off because of the tariff situation. Louis A. Waltke, of the Waltke Soap Company, St. Louis, said that no high-grade castile soap can be made of Philippine copra. Chessman Kittredge, of the Vegetable Oil Corporation, New York, advocated a lower duty on coconut oil also. R. U. Delaphane, of the Olive Oil Association, declared that olive oil is produced in this country only in California and that the Pacific coast fish packers alone require more olive oil than California can produce, and that the tariff cannot stimulate production in this country.

C. Rogers Brown, representing the Bureau of Raw Materials, urged exclusion of fish oils on the ground that accurate production costs cannot be secured. Oleo oil also should be excluded, he said, as there are large exports but no imports.

W. A. Larner, counsel for the American Fish Oil Association, introduced a delegation of Virginia fishermen, who, he said, would have their livelihood taken away if the tariff on fish oil were cut.

The opposition to a reduction on the vegetable, fish and

animal oils earnestly urged that if the commodities listed by the Commission for investigation are to be continued in the inquiry the Commission include also other oils which enter into competition with those specified in certain cases. Their principal point, however, was that the inquiry essentially affected the raw materials from which the oils are produced and they urged that the order for investigation be broadened to include the raw materials, as well as the oils produced from these materials in order that the interests of the farmers might be protected in any change of duty that might be made.

The principal witnesses for the opposition were Charles W. Holman, secretary-treasurer of the National Board of Farm Organizations; L. B. Jackson, commissioner of markets of Georgia; B. B. Bain, who owns and operates several peanut crushing mills throughout the South; and Edward Woodall, representing independent cotton seed crushers of Texas, Oklahoma and Louisiana.

Architects Invited to Submit Designs for New City College of Baltimore—Structure Estimated to Cost \$1,500,000.

Charles H. Osborne, inspector of buildings and secretary of the Architectural Commission of Baltimore, has invited twenty-six architects to enter a competition to prepare plans and specifications for Baltimore's new City College to cost \$1,500,000. The competition will close May 10 and the following architects have been asked to submit designs:

O. E. Adams, Charles M. Anderson, Archer & Allen, William Gordon Beecher, Buckler & Fenhagen, William W. Emmart, William H. Emory, Jr., Laurence Hall Fowler, Benjamin Frank, Clyde N. and Nelson Friz, Walter M. Gieske, Edward H. Glidden, Harry Powell Hopkins, Herbert G. Jory, Thomas Machen, Mottu & White, Owens & Sisco, Edward L. Palmer, Jr., Parker, Thomas & Rice, Josias Pennington, Theodore Wells Pietsch, Howard Sill, Smith & May, Joseph Evans Sperry, Lucius R. White, Jr., and Wyatt & Nolting, all of Baltimore.

A program of competition prepared by Dr. Warren P. Laird of Philadelphia, professional adviser to the architectural Commission, which covers every feature of the proposed building, has also been sent to the architects. The competition will be in charge of a committee whose members include Mayor Howard W. Jackson, Robert Garrett and Henry D. Harlan, Public Improvement Commission; Isaac S. Field, president, and Warren S. Seipp, School Board, and William C. Schnabel and Edward H. Bouton, Architectural Commission. The committee will be assisted by Dr. Laird. Competition has been limited to Maryland architects, but architects from other states having local connections will not be barred. The successful architect will be appointed by the Architectural Commission, while cash prizes will be awarded to the five architects standing highest in the competition and next to the successful one.

The new building will occupy a site of 39 acres extending from Thirty-third street to Gorsuch avenue and from Montebello avenue to Alameda. It will front on Thirty-third street.

Industrial Engineers to Meet.

The Eleventh National Convention of the Society of Industrial Engineers will be held at the Hotel Statler, Buffalo, N. Y., April 30 to May 2. The major subject, "Reducing the Cost of Business" will embrace papers and discussions dealing with the various departments of business—administration; sales; production; and personnel. On each of the three days of the convention, inspection trips will be made through some of the most modern plants in Buffalo and Niagara Falls.

A Tax Sermon for the Nation's Salvation.

By GUY M. WALKER, 61 Broadway, New York.

"Arbitrary power does not so much bring in high taxes as high taxes introduce arbitrary power, for when that golden idol of an immense revenue has been once set up all the nations bow down to it." Davenant's Essay on Trade—1699.

Our Revolutionary War with Great Britain was fought in resistance against unjust taxation that threatened our prosperity. Must we have another revolution to relieve ourselves of the unjust taxation imposed upon our people by Congress?

It was not lack of representation that made our forefathers fight but it was taxation that restrained and interfered with their business and that was destroying their prosperity, and it is taxation, unjust and uneconomic, imposed upon our people by their own selected representatives that is threatening our prosperity and our liberties today. The Boston Town Meeting in 1768 declared that taxes were draining the Colonies of their money.

When the late World War necessitated enormous taxation there was not only no effort made to impose that taxation along economic lines but there was a definite purpose by the then members of Congress to impose unjust and uneconomic taxes and to silence public outcry against them with charges of disloyalty and lack of patriotism; just as the British Parliament denounced the Colonists as traitors. And now since the World War is over and the effect of these unjust and uneconomic taxes is becoming apparent there is a plain effort being made to prevent the revisal of our tax laws along sound economic lines as proposed by Secretary Mellon.

A tax law is supposed to have for its purpose the raising of money. Of what use is it to pass laws imposing taxes that nobody pays?

As soon as the War was over and patriotism could no longer be used to force active men to submit to injustice and progressive robbery by statute they began, as such men always do, to devise ways and means to escape being plundered by Socialistic lawmakers, and they have done this to such an extent that the higher surtaxes are no longer paid by anybody and the tax law in this respect produces no revenue. The figures are perfectly plain. The surtaxes proposed by Congress attempt to tax incomes that do not exist and which will not raise a cent. Does Congress think that the people do not know this? The members of Congress fail completely to understand what the Secretary of the Treasury is trying to do. Secretary Mellon is trying to create incomes that will pay taxes.

You cannot create taxpayers by legislation. They must be born and then induced to work. You can kill them off by tax laws but no tax law can ever produce them. Killing off taxpayers is exactly what the present tax law has been doing. The trouble with our country is that a fundamental Socialist principle was foisted on to our people without their realizing what was being done. There are two ways of killing off the great producing individuals in the world and Socialist literature recognized them both. The Russians have used the primitive way of lining them up against the wall, shooting them and confiscating their property. The other way is to impose income taxes on them up to the point where they quit producing, and they are just as effectively killed by this method as if they had been shot.

The action of Congress is raising no money and will raise no money for the government, but is robbing industry and commerce of much needed capital and worse needed brains and destroying our prosperity. The proposal of Secretary Mellon will bring capital into industry, revive business and

bring prosperity to all our people and give them a chance to make some money with which to pay taxes.

In one particular only is Secretary Mellon wrong, and that is in placing his highest surtax at 25 per cent. From long experience in reorganization I have found that there is a point at which men will make no effort to preserve or save a bad investment. If a railroad or public utility property goes into receivership you can effectually prevent any attempt on the part of the bondholders or preferred stockholders from saving their investment in the property by proposing a reorganization plan calling on them to pay an assessment of 25 per cent of their present investment. Such a plan will receive absolutely no support. Men would rather lose an investment than to pay 25 per cent more to save it. The very highest percentage that you can count upon successfully being accepted by security holders is one calling for an assessment of 20 per cent and this will only be acceptable if and when the possibility of salvage is most alluring.

Now if men will not pay more than 20 per cent to save money that they have already made they will not attempt to make money if 20 per cent is to be taken from them when they make it.

Personally, I am satisfied from my twenty-five years' experience in reorganization work that no surtax higher than 15 per cent will ever be an income producer for the government. When the producer of any income gets his income up to the point where the government takes as much as 20 per cent from him he will quit.

If Congress feels that it is necessary for it to make a grand gesture for the purpose of saving its face, let them pass a law cutting the lower normal rates as they propose, even lower than that recommended by Secretary Mellon. They should cut the surtax on all incomes lower than \$1,000,000 to 15 per cent; certainly it should not be higher than 20 per cent, and then let them provide for a surtax imposing 150 per cent income tax on all incomes of \$1,000,000,000 and over. Of course, there is no such income and nobody would ever come under the terms of the law and not a cent would ever be raised by it, but that is true of the higher surtaxes under the present law—a stubborn fact that the members of Congress refuse to believe. But with a 150 per cent surtax on incomes of a billion dollars Congress could thumb its collective fingers from its collective nose at the collective country, and say: "There, see what we have done to any man who will ever try to do so much for the world."

For remember, no great earned income can ever be made without its recipient rendering services to his fellow men far in excess of anything that he ever receives or collects for himself.

In the "Defense of Wealth" I have shown that the great minds of the race refused to work until the law protected them in the enjoyment of the fruits of their inventive genius.

Since the Socialist Income Tax has again reversed the progress of the human race the great producers, the great geniuses, have simply quit work, and they will not begin to work again until their fellow men recognize their rights to the products of their genius or the exercise of their abilities.

It is a mistake to think that you will be able to reach the great producers by destroying tax exempt securities. As long as you have tax exempt securities the capital of the great productive brains will be at least invested where municipalities, states and the government can carry on improvements, but if you cease issuing tax exempt securities and close this avenue of investment, those men will do as hundreds are doing today who are paying no income tax and who have no tax exempt securities. Their safe deposit boxes are full of gold or gold certificates and they will live up to

their principal before they will contribute more than 20 per cent of their earnings to an idle, shiftless mob lacking intelligence as to how to take care of itself.

"The public is more benefited by a shilling that circulates than a pound that lies dead."

Our present condition is nothing new. Two hundred and twenty-five years ago when England was suffering from the taxes and debts incurred in the wars of William the III, Charles Davenant, the first great English economist, said:

"A country cannot increase in wealth and power but by private men doing their duty to the public and by a steady course in honesty and wisdom by such as are entrusted with the administration.

"What begets general industry but the hope to have property preserved? What encourages men with infinite care, labor and hazard to gather private wealth which enriches the public, but the hope that stability and just administration may produce peace, security and lasting government.

"Where men have a prospect of this, strangers resort thither with their wealth and stocks, but merchants and other cautious persons abandon those countries whose follies and corruptions subject them to continual change.

"There is nothing that does sooner dispose the people to corruption than such heavy taxes as make them uneasy in their fortunes.

"The subversion of most free governments has happened when the people have been overwhelmed with debts and pressed with too great necessities. To preserve the rights of the nation we should be represented by such as have the greatest share in property.

"For if such as represent the people do not preserve their courage and integrity, if the nation's treasury is wasted, if ministers are allowed to undermine the constitution with impunity, it is a tyranny established by law, authorized by consent, and such a people are bound with fetters of their own making.

"A Congress that would consent to continued taxes beyond the necessities of war, would give up the Magna Charta or set the present taxes into a perpetuity."

That last sentence is Davenant's, not mine, though it sounds like it was written today. Let Congress make no mistake—a revolution is brewing!

United States Produces 72 Per Cent and the South One-Third of World's Petroleum.

The American Petroleum Institute estimates the world's petroleum production in 1923 at 1,010,995,000 barrels, compared with 854,809,000 barrels reported by the Geological Survey in 1922. The increase in 1923 amounted to 156,186,000 barrels, or 18.3 per cent.

The United States produced 735,000,000 barrels in 1923, or 72.7 per cent of the total world production. Over half of the country's production comes from the South. In 1922 the United States produced 557,531,000 barrels, or 65.2 per cent of the world production in that year, and the South produced over 332,000,000 barrels, or over 59 per cent of the domestic output and over 38 per cent of the world's total production of petroleum.

The increase in the United States production in 1923 amounted to 177,469,000 barrels, or 31.8 per cent.

Mexico produced 149,472,000 barrels in 1923 or 14.8 per cent of the world production. In 1922 Mexico's output was 182,278,000 barrels, or 21.3 per cent of the total production in that year. The decrease for Mexico in 1923 amounted to 32,806,000 barrels. In 1923 Russia produced 38,167,000 barrels or 3.8 per cent of the world's output, and Persia 25,000,000 barrels, or 2.5 per cent of the world's petroleum production, followed by the Dutch East Indies and Roumania with respectively 15,000,000 barrels and 10,850,000 barrels. The other petroleum producing countries each produced less than 1 per cent of the world's output.

Virginia Bridge & Iron Co. Opens West Coast Office.

Discussing the opening of a branch sales office at Los Angeles, Calif., and its reasons therefor, the Virginia Bridge & Iron Co. of Roanoke, Va., write the MANUFACTURERS RECORD:

"Such business as we develop in California and on the Pacific Coast we hope to take care of from our Memphis plant which is, of course, the most logical for a quick direct all-rail movement, although we can actually get to most of the Pacific Coast territory on a little cheaper freight cost by shipping from Roanoke to Norfolk, and thence water.

"Presuming the use of American steel made in the East, our Memphis plant can properly compete with no freight handicap as far as all-rail movement is concerned. The railroads recently made effective a substantial reduction in the trans-continental rate on structural steel. This now enables us to ship through our Memphis plant on more nearly a parity in freight cost with shipments through North Atlantic ports and water movement through the canal.

"On certain classes of business it is, however, possible to effect a very substantial saving via water movement, and where conditions are favorable we expect to handle such business in our Roanoke plant and ship through Norfolk.

"Our sales activity from the Los Angeles office will, we believe, be substantially the same as here in the East. In the short time our Los Angeles office has been running we have already secured two contracts and have favorable consideration on several other projects."

Modern Department Store Building for Monroe.

Monroe, La.—The Palace Department Store of this city, of which Masur Brothers are owners, has awarded contract to the Underwood Contracting Corporation of New Orleans, for a new six-story, concrete and steel building here. In order to eliminate the necessity of using interior columns, cantilever footings for balancing the load evenly will be employed. A typical footing will be 32 feet long, 17 feet wide and 5 feet thick, of concrete reinforced with steel.

The structure will be of hollow tile and light buff mat brick, with one front of terra cotta. Verde antique marble with cast iron trim will be used for the lower story. Two high speed elevators, sprinkler system dumb waiter, steel and concrete stairway and fire escape will be installed, in addition to other modern facilities. All departments will be connected by a pneumatic tube system and heat will be supplied by gas radiators. A circulating system of drinking water will be installed with drinking fountains conveniently located.

William Drago and L. Milton King of Monroe are the architects and will supervise the construction of the building. Hentz, Reid & Adler of Atlanta are the consulting architects.

Addition to Reusens Water Power Plant.

The Lynchburg Traction & Light Co. of Lynchburg, advises the MANUFACTURERS RECORD that it will build an addition to its water power plant at Reusens, Va. and will install two 1000-kilowatt vertical generators manufactured by the Westinghouse Electric & Manufacturing Co. of Pittsburgh, Pa.; 1830-horsepower water wheel made by James Leffel & Co., Springfield, Ohio, and gates made by the Newport News (Va.) Dry Dock & Shipbuilding Co. Pressure governors made by the Woodward Governor Co. of Rockford, Ill., will be used.

The new building will be 31 by 54 feet, set in the present dam 80 feet from the present building and connected by a bridge. It will be of brick and concrete supported by concrete piers and constructed in the bed of the river immediately back of the dam. The floor on which the generators will rest, will be about 17 feet above the crest of the dam. It will be necessary to build coffer dams to hold back the water during construction.

William C. Whitner & Co. of Richmond are the engineers.

The Migratory Habits of the Negro Under Past and Present Conditions.

[The facts and figures given in the following illuminating discussion of the negro migration movement are very interesting and important. We believe they fairly state the whole case.—Editor Manufacturers Record.]

By F. W. GIST of Montgomery, Ala., Agricultural Statistician, United States Department of Agriculture.

A number of discussions of this subject have found their way into public print in recent months. Very few, if any, of these have been statistical. Some have ignored the facts altogether, while others have misquoted or misinterpreted them. Newspapers from all sections have sought "stories" from the so-called exodus, and the sensational has naturally predominated. The economic features of the more recent negro migration have found some quite intelligent expression among those writers who are familiar with the subject, although most of these have written without a correct interpretation of the available statistics. The subject is essentially an economic one, and as such should be measured by such an array of facts as are available.

It is almost academic to say that the negro is a nomadic being, and yet to prove it statistically it is better understood both the cause and the effect of his transient character. In point of fact, he is not so much different in this respect from the rest of humanity. Men have always moved and chiefly for the same reason, the lack of contentment with present surroundings. Had the human race been aught than migratory new worlds had never been peopled, nor had the frontiers ever moved westward. History reveals the notable fact that the men who move on are those who are not successful in their present habitat. The lack of success may or may not be the fault of the mover, but it has been the prime force behind all movements. Whatever the thing is that men have failed to find, it is that which has sent them into new fields, believing that when the thing is found it will bring them success and contentment. It has not always done so, and they have often moved on again or back to the point of origin.

Prior to 1910 the movement of the negro from one state to another and from one section to another was no more pronounced than that of the white man. At the time the 1910 census was taken the number of persons, both white and black, found living in states other than those of their birth were in about the same ratio to total population. Therefore it may be assumed that prior to that date migration was an individual and not a racial question; in other words that the negro moved in about the normal proportion to aggregate volume. A careful study of census figures has led to the acceptance as approximate of the following figures as representing the net loss from the South of negroes during the periods named:

1860-1870	185,000
1870-1880	28,000
1880-1890	40,000
1890-1900	11,000
1900-1910	118,000

Between 1910 and 1920 the net loss, calculated from the same process, appears to have been about 552,000. It may be interesting to state the process of deduction from which this conclusion is drawn:

Negro population in Southern states in 1910.....	8,717,000
Natural increase (excess of births over deaths) should be	610,000
Should have been at census of 1920.....	9,327,000
Census enumeration 1920.....	8,775,000
Net loss by migration.....	552,000

The natural increase calculated was on a basis of 6.5 per

cent increase for the entire negro population. This was very low, the rate having been in the previous ten-year period 11.2 per cent. Therefore the calculation of the theoretic population which should have appeared in 1920 is a very conservative one, so that the estimated loss is probably full low.

Some of the Southern states, however, appear to have actually gained by migration during the period. The calculation made by states is as follows:

	Moved in.	Moved out.
Alabama		70,000
Arkansas		2,000
Florida		1,000
Georgia		53,000
Kentucky		44,000
Louisiana		64,000
Maryland		4,000
Mississippi		145,000
Missouri		78,000
North Carolina	16,000	
Oklahoma	1,000	
South Carolina		30,000
Tennessee		54,000
Texas	4,000	
Virginia		28,000
	21,000	573,000

Leaving a net emigration of 552,000. It is known that the heavy movement began when the World War brought about industrial activities which originated tempting wages, and when our entrance therein started a call for all available labor to enter into the production of war supplies. Therefore it is permissible to charge at least the excess of loss in the ten-year period to the latter years thereof. This excess over the previous period was 434,000, which, scattered over the last four years of the decade ending with 1919, indicates an annual movement from 1916 to 1919, inclusive, of about 108,000. This was 1.2 per cent of the total negro population in 1910 in the Southern states, and is nearly twice the natural increase of the race per annum from 1910 to 1920.

Not a great deal was heard of negro migration from 1920, when some few had returned from war activities in both army and industrial ranks, until the beginning of the present year, although the movement had probably continued with something like the same volume. Insistent reports of a heavy migration around the first of 1923 caused the United States Department of Agriculture to order its agents in the Southern states to investigate. The inquiry was made on a percentage basis and the movement was asked for "recent months," instead of for a fixed period. Therefore the returns were not considered to be uniform and capable of exact interpretation.

As nearly as could be calculated into an aggregate number it appeared that about 90,000 negro farm workers left Southern farms for industrial centers in other sections of the country, presumably between the close of harvest in 1922 to the first of April 1923. A recent writer misquoted the Department's estimate on this subject, quoting the Department as having estimated that 324,000 left Southern farms in 1922. This figure had reference to another investigation, which disclosed the fact that the net loss of farm population in the Southern states by removal in 1922 was 661,000, of which 324,000 were lost to the South Atlantic states. Of this loss of population (white and black) one-fourth, or about 165,000, were estimated to have been farm workers.

It is probable, therefore, that the estimate of 90,000 ne-

groes leaving is approximately correct, though that figure may be high. If somewhere near correct, such a migration was not much in excess of the annual movement which began in 1910. Most of those who have left the Southern farms in recent years have been of working age, and it is interesting to note that much of the farm work they left has been in some manner performed by women and children in their absence. This is especially true within the past crop season.

We have, therefore, before us the known fact that the so-called negro exodus so much heralded in recent months had its origin about seven years ago, and has been more or less constant and uniform during that period. After the first four years of its movement the census found that the South still had by a few thousand more negroes than in 1910. It is probable that, with a continuance to this day, we have a few less. Of course, if the movement continues at the present rate, there will soon be a notable absence in the South and a correspondingly notable increase in the East and North. One paper has already said that Chicago has now a real negro problem. What is meant by that does not appear. The negro problem in the South has always been mainly an economic one, and the migration under discussion is entirely one of economics to both the South and to the negro.

There is but one reason for the movement away from the farm on the part of the negro which can be given serious consideration. That is his failure to make a living on cotton farms coupled with the high wages offered in industrial pursuits. Every other reason advanced has existed ever since the abolition of slavery, and not until the boll weevil made cotton production unprofitable and high wages were offered at public works did his excessive migration become noticeable. Industrial pursuits, indeed, have always offered much higher returns for labor than has the farm, and yet the negro was not attracted by them in extreme numbers until abnormally low yields of cotton began to prevent him, even at high prices, from making enough to pay his rent and his store bills.

There have been sporadic migrations from cotton fields following big yields at high prices. At such times the negroes took their profits and went out after farm ownership where it could be purchased. In most instances they failed on their own account, and came back. Such an occurrence in large numbers took place in the Mississippi Delta in 1919. When the boll weevil first invaded the area of heavy negro farm population financial demoralization took place, as was witnessed in both Louisiana and south Mississippi. Likewise when the weevil came to the negro sections of Alabama they began to move out. We heard little of the negro movement from Georgia until the year following the first real weevil damage sustained in the negro counties of that state, and not until last year did South Carolina worry about a negro exodus which was coexistent with extreme weevil damage.

The reason for this is easy of understanding. Production of cotton under weevil infestation requires intensive and intelligent cultivation. Profitable farming under weevil infestation requires a cropping system which includes the production of foods and feeds as an economic adjunct to cotton and which offers a practical rotation of crops as well as a system of soil maintenance. These things are foreign to the negro's scheme of farming. For a century he was taught to grow cotton under a system which required the payment of land rents and the purchase of all supplies out of his cotton money.

Since weevil infestation in Alabama the three outstanding negro counties have averaged 85 pounds of cotton per acre for six years, while the three typical white counties in the same section of the state averaged 137 pounds. No man can compete in any line of endeavor with a handicap of 61

per cent against him in volume of production. Sooner or later he will have to adopt his competitor's system or move on. The negro farmer is choosing the latter course, rather than to learn all over again, which he would have to do from example and precept. The negro farmer is essentially a tenant, since in the three typical Southern states only 15 per cent of the negro farmers are owners. He is continuously moving from farm to farm, and is just as likely, under present conditions, to move out of the state.

The results of negro migration are quite as economic as are the reasons. Land owners, consumers of farm products, and the negro himself are the three classes of persons affected, to which may be added the merchants and dealers in farm commodities. Land owners, especially those with large holdings, have in the past found the negro tenant profitable. They either paid a cash rental in money or cotton which represented a high interest rate on the land value, or, with certain materials furnished, they gave half the cotton produced. In certain cases one-fourth the cotton was paid as rent without any supplies or work stock included. On this latter basis the three typical negro counties referred to above, with an average yield of 165 pounds before the weevil came, gave to the land owner an average rental return of 41 pounds, which since the advent of the weevil has been cut to 21 pounds. The latter rental in the past six years has been worth more than the 41 pounds were the previous six years. But the negro has not enjoyed that advantage, since what he bought with his share has advanced in price along with his cotton and his 64 pounds will not buy what his 124 pounds used to buy. So the migration of the negro will fall heavily on the landowner in these counties. Likewise the merchant will miss the purchases the negroes were accustomed to make in the old days.

On the other hand, the general interests of agriculture in the South, measured by the supply of food, feed, and raw material for clothing, have not been affected by the negro migration. In Alabama in 1909 there were nearly 700,000 persons engaged in agriculture; in 1919 there were about 500,000, which number was further reduced in 1922. In 1909, to the ten principal crops 7,040,000 acres were devoted; in 1922 this acreage had been increased to 8,206,000. This represents an increase in farm labor efficiency, measured by land per person engaged, of 80 per cent. The volume of production of the ten crops increased in the same time by 41 per cent, notwithstanding a reduction in cotton produced by 25 per cent, which represents an increased efficiency of farm labor measured by production of 100 per cent. So long as this measure of efficiency is maintained the community is not concerned about the loss of negro farm labor, and the landowner and merchant must work out their own problems. Neither will the main body of farmers be concerned so long as they can produce more on less area, while an increased industrial population creates an additional demand for their products.

What will ultimately concern the negro himself are the results of his change in habitat. Whether high wages for a season will satisfy him remains to be seen. There are other things for him to seriously consider. Beginning with 1860 the natural increase of the negro race, excess of births over deaths, has been as follows, as shown by census reports:

	Per Cent
1860-1870	11.0
1870-1880	35.0
1880-1890	13.3
1890-1900	18.0
1900-1910	11.2
1910-1920	6.5

The first figure and the third are probably too low, while the second is unquestionably high. It is likely that from 1860 to 1900 the rate of increase was about 18 per cent. The two latter figures must be accepted as approximately accurate, owing to improvements in census enumeration

and compilation. The drop in the last two periods is serious. Should the rate of decrease continue the present decade will show little or no increase in negro population. A further continuation indefinitely would wipe the race out of existence in two hundred years.

Even during slavery time it was discovered that the free negro, when he migrated to the city, immediately began to increase his death rate and decrease his birth rate. It is apparent that this tendency has continued with the gravitation of the negro to the cities and to northern climate. Congestion, cold, late hours, and vicious habits subject him to pneumonia, tuberculosis, and reduced births. He will probably pay dearly for his higher wages. This is his problem and can only be solved by him.

No intelligent writer, familiar with actual conditions, will discuss such phases as lynchings, Ku Klux, suffrage, legal protection, and the like as causes of heavy migration of the negro. They are the merest sensational literary fakes. The migration has not been so serious as to affect Southern agriculture as an economic system. Individual loss therefrom is an individual problem. The reasons for the movement constitute a problem which belongs solely to the negro. The results must be borne by him.

Carrying Forward Plans for Development of 511,000 Acres Alabama Coal and Iron Lands.

Birmingham, Ala., March 10—Within the next few weeks Robert W. Hunt Company, of Chicago, Ill., will place engineering parties in the field to secure information upon which to base plans for the initial development of the vast acreage of coal and iron lands acquired by the recently organized Deepwater Coal & Iron Corporation. The company has been organized under the laws of Delaware with an authorized capital stock of 100,000 shares of 7 per cent cumulative preferred stock of \$100 par value, and 200,000 shares of no par value common stock. No bonds have been issued or authorized.

The company has taken title in fee simple to mining rights of approximately 511,000 acres of coal and iron ore lands in Walker, Winston and Marion counties, Alabama. In addition it has acquired Big and Little Dauphin Islands at the mouth of Mobile Bay, and it is reported that these islands will be used in conjunction with the development of domestic and foreign trade.

The offices of the company are: Chairman of the Board, L. B. Musgrove, Jasper, Ala.; President, Charles A. Meade, New York City; Vice-Presidents, John M. Goetchius, Walter Douglas and Morris R. Poucher, all of New York City; treasurer-secretary and counsel, Charles T. Lark, of New York City. The other members of the Board of Directors are: Frank W. T. Amis, Matthew C. Fleming, Samuel Hill, Courtlandt Linkroum and Edgar Palmer. The engineers of the company are Robert W. Hunt Company, Chicago.

Previous details of the company's plans were published in the MANUFACTURERS RECORD of March 6.

\$1,000,000 Underwriting Corporation Being Promoted in Interest of Fort Worth Industries.

Fort Worth, Tex.—According to an announcement by Ben E. Keith, former president of the Fort Worth Chamber of Commerce, a \$1,000,000 corporation is being promoted here for the purpose of underwriting the stock of manufacturing companies desiring to locate plants in this city. It will be known as the Industrial Underwriters Corporation of Fort Worth and will be incorporated under the laws of Texas.

As an adjunct, it is planned to organize a publicity bureau which will advertise the corporation and its plans throughout the country. It is stated that the new corporation will extend an invitation to every manufacturing firm in America to investigate the facilities offered in Fort Worth.

February Construction in South Climbs High.

Industrial, building and general development activities in the sixteen Southern states for February exceeded the high level set during January, as indicated by the publication in the DAILY BULLETIN and in construction columns of the MANUFACTURERS RECORD of 4944 items. The weekly average for the first month of the year was 1090; last month it was 1236.

The total number of items last month compares with 4292 items published in February, 1923 and with 4143 items in February, 1922.

In the first two months of 1924 a total of 10,400 construction items covering all phases of Southern construction were published compared with 8011 for the corresponding months of the preceding year, and with 7719, the total for January and February, 1922.

The February total is made up of 2569 industrial development and 1448 building news items, 528 financial announcements and 702 machinery, proposals and supplies wanted notices.

	Totals for Feb.	Totals for Jan. and Feb.
Industrial Developments		
Bridges, Culverts, Viaducts	171	434
Canning Plants	16	24
Clayworking Plants	9	22
Coal Mines and Coke Ovens	17	56
Concrete and Cement Plants	7	16
Cotton Compresses and Gins	18	30
Cottonseed Oil	2	9
Drainage and Irrigation	13	24
Electric Light and Power Plants	86	175
Fertilizer Plants	3	12
Flour, Feed and Meal Mills	14	34
Foundry and Machine Plants	26	35
Gas and Oil Developments	83	175
Ice and Cold Storage	34	70
Iron and Steel Plants	6	8
Land Developments	189	404
Lumber Enterprises	46	112
Metal-Working Plants	10	12
Mining	21	56
Miscellaneous Construction	51	103
Miscellaneous Enterprises	442	1001
Motor Cars, Garages, Tires, etc.	168	329
Railways and Street Railways	6	11
Railway Shops, Terminals, Roundhouses, etc.	4	15
Road and Street Construction	588	1122
Sewer Construction	72	163
Shipbuilding Plants	1	1
Telephone System	20	40
Textile Mills	38	72
Water-Works	94	215
Woodworking	36	80
	2291	4860
Building		
Association and Fraternal	54	112
Bank and Office	73	147
Churches	171	358
City and County	95	178
Dwellings	333	570
Government and State	6	33
Hospitals, Sanitariums, etc.	43	78
Hotels and Apartments	159	294
Miscellaneous	72	150
Railway Stations, Sheds, etc.	18	36
Schools	290	591
Stores	133	292
Theaters	14	35
Warehouses	30	67
	1491	2939
Financial		
Corporations	122	236
New Securities	283	697
	405	933
Machinery Proposals and Supplies Wanted		
	562	1264
TOTAL	4749	9996
Fire Damage	195	404
	4944	10400

A campaign will begin in St. Louis on March 17 to raise \$2,000,000 with which to erect a Jewish hospital at Kings-highway and Forest Park boulevards in that city. Aaron Waldheim is chairman of the hospital board.

The Engineering Association of Nashville Suggests a Method for Securing the Highest Bid for Muscle Shoals.

A committee of members of the Nashville Engineering Association appointed by that organization to submit a report for presentation to Congress, including methods of the leasing of the plant and power development included in the Muscle Shoals bids, after introductory paragraphs of "whereas, and whereas," presented the following resolutions which were adopted:

"RESOLVED, That Congress be requested to seriously consider any action which they may take for the leasing of Muscle Shoals which will not be under the provision and in conformity to the Federal Water Power Act, which Act, even in its present imperfect form, is the last and only bulwark of the people of the United States for protection from a monopoly of our energy resources by private corporations without the adequate control and supervision of governmental agencies, and be it further

"RESOLVED, That the Nashville Engineering Association hereby goes on record as opposing the two bids now before Congress for Muscle Shoals, as we consider that both of these bids are worded in a most conspicuously ambiguous and indefinite manner, and that we petition the President of these United States to appoint a commission of five men, to be confirmed by the Senate, two or more of whom shall be hydraulic engineers of recognized standing in their profession, and that this commission shall draw up specifications which should be advertised to the public as the conditions under which bids may be accepted for the leasing of Muscle Shoals, and that bids received under such rules should be in the hands of the government before November 1st, 1924, which would give Congress ample time to act on such new bids before the power being developed at Muscle Shoals will be available for distribution, and be it further

"RESOLVED, That the Government handle the leasing of Muscle Shoals under rules and specifications in conformity to the rules and specifications which the national policy of conservation is now demanding in the leasing of public oil and coal lands, and that no exception be made to this rule in any water power lease, and be it further

"RESOLVED, That in all such bids adequate provision be made for taking care of equipment and developments at Muscle Shoals in a manner so as to best safeguard the national defense of our country, and be it further

"RESOLVED, That the leasing of this water power be considered separately from the making of fertilizer, inasmuch as the fertilizer bids as they are now worded in the bids before Congress, are in our opinion, almost entirely composed of catch word phrases, and appear to us to be ambiguously placed in the bids, so as to act as political bait, by making a special appeal for the support of the farmer bloc and vote, in order that the bidders may get all possible support to assist them in acquiring the water power at Muscle Shoals in which their primary interest appears to lie, and which is to them and to all the people of great financial value, and be it further

"RESOLVED, That bids for making fertilizer, which are included or made separately, be definite in the statements of the kinds and amount of fertilizer they will make, and the chemical processes are not known at the present time, then be it

"RESOLVED, That the plants and equipment at Muscle Shoals suitable for such experimentation be turned over to the Bureau of Fixed Nitrogen Research, Department of Agriculture, and that the lessee of Muscle Shoals agree to furnish this Bureau with power under certain terms, and likewise agree to furnish them a certain amount of money per year for experimentation along this line, so that the farmer will get the benefits which are talked about in the present bills but not legally promised; and be it further

"RESOLVED, That the lessee of the Muscle Shoals water power be required to set aside permanently a certain percentage of the power developed at Muscle Shoals, to be used in making fertilizer, this amount to be fixed by the above outlined commission; and be it further

"RESOLVED, That adequate provision shall be made so that whoever acquires the lease of Muscle Shoals will agree to distribute power developed at that point in such a manner

so as to serve to the best advantage in the economic, industrial, and agricultural development of the United States.

"(Signed by):

"CHAS. H. SIMPSON, Chairman,
"(Commissioner of Highways, Davidson County).

"ARTHUR J. DYER,
"(President, Nashville Bridge Co.).

"WILBUR A. NELSON,
"(State Geologist for Tennessee).

"BATTLE H. KLYCE,
"(Member Firm of B. H. Klyce Co., Engineers).

"Adopted, March 3rd, 1924; by vote of Engineering Association of Nashville,

"A. F. GANIER, President."

Lumber Exports in January Increase 30 Per Cent in Value Over January Last Year.

The total exports of wood and wood manufactures from the United States during January, 1924, were valued at \$8,100,756, compared with \$5,748,574 for the same month last year, an increase of approximately 29 per cent, according to the Lumber Division of the Department of Commerce. For the seven months ending January, 1924, the total values of these exports amounted to \$48,748,862, compared with \$33,988,373 for 1923, an approximate increase of 30 per cent.

Exports of logs and round timber in January included 15,615,000 feet of cedar, 844,000 feet of Douglas fir, and 408,000 of Southern yellow pine. Exports of hewn and sawn timber for the same month included 886,849,000 feet of Douglas fir, of which 4,732,000 feet was "treated," (new item commencing January). Southern yellow pine timber amounted to 12,698,000 feet of which 222,000 feet was "treated."

Lumber (boards, planks, and scantlings) exported during January amounted to 218,557,000 feet, Douglas fir being the largest species with 111,340,000 feet. Southern yellow pine was next in importance with 41,626,000 feet. Other January exports of softwood lumber included 26,727,000 feet of Western hemlock; 5,114,000 feet redwood; 2,972,000 feet spruce; 1,834,000 feet Western yellow pine; 1,048,000 feet white pine; and 382,000 feet cypress.

Of the hardwood lumber exported in January, oak took first place with 11,982,000 feet, principally going to the United Kingdom.

South Carolina to Have \$500,000 State Office Building.

Columbia, S. C.—An act authorizing the construction of a state office building here to cost not more than \$500,000 has been signed by Governor Thomas G. McLeod, and possible sites for the building are now being considered by the Sinking Fund Commission of South Carolina, of which M. J. Miller is secretary. The commission is also considering the selection of an architect.

Under provisions of the bill, the commission which is to furnish funds for the erection of the building, is charged with the supervision of its construction, awarding of contracts and other details. The building will contain about 58,000 square feet of floor space, of which 46,000 square feet will be used for the various state departments at a rental of one dollar per square foot per annum, while the remaining 12,000 square feet will be devoted to filing space and conference rooms.

To Complete Austin Dam and Power House.

Austin, Tex.—Incorporated under the laws of Delaware, the Public Service Corporation of Texas, has been given permission to operate in this state. The corporation plans to complete the Austin dam and power house here and will endeavor to sell \$650,000 of bonds out of an authorization of \$800,000, for the retirement of present obligations and for construction purposes.

Offer for Muscle Shoals by the United States Muscle Shoals Power and Nitrates Corporation.

A bill to lease the Muscle Shoals projects to the United States Muscle Shoals Power & Nitrates Corp., controlled by New York interests was introduced in the Senate by Senator Wadsworth last week. Elon H. Hooker, president of the Hooker Electrochemical Co., now operating at Niagara Falls, is the organizer of the company, and with him are associated James G. White, president of the J. G. White Engineering Co., New York City and W. W. Atterbury, operating vice-president of the Pennsylvania Railroad.

The offer, which was made on January 29 before the Committee on Military Affairs, House of Representatives, would leave the Muscle Shoals property in the hands of the government with the corporation responsible for its operation, and \$1,000,000 capital would be placed with the government as a guarantee of good faith, the money for necessary development to be furnished by the government. The proposal provides for a 50-year lease and would include development of all branches of the project, with particular emphasis upon the production of fertilizer. A sinking fund would be created with which to repay the government for all money invested.

In outlining the offer to the committee Mr. Hooker stated that the company would have a capital stock of \$10,000,000 with \$1,000,000 paid in. It would take over construction of Dam No. 2 now under way and receive one-third of 10 per cent commission. A 60,000 kilowatt extension would be made to the steam-electric plant. Whatever parts of Nitrate Plant No. 2 or Nitrate Plant No. 1 are required would be used for production of fertilizer, and extensive research would be conducted to determine what processes would give the best results.

A brief summary of the more important provisions of the lease are as follows:

1—The lease shall cease 50 years after completion of Dam 2 or Dam 3, if it is built.

2—An Advisory Committee of three members shall be maintained, one of whom shall be appointed by the Secretary of War and one shall be chairman of the corporation.

It will have advisory powers in matters of development, expansion and operation and the sale of products, and the Secretary of War, upon its recommendation shall make rules for control of Tennessee River navigation.

3—All facilities created by Department of Agriculture for distribution and sale of fertilizers shall be accessible, and the co-operation of the Government and State experimental stations in research is pledged.

4—The corporation shall have the right to operate without any payment of royalty and to license others to operate in the Muscle Shoals district, under patents controlled by the United States.

5—With the approval of the Secretary of War surplus land, supplies, equipment, etc. may be sold, such money to be used as working capital.

6—The corporation shall be reimbursed annually for each tax or assessment levied upon it or the leased properties.

7—The United States is to furnish all funds required for the completion of the unfinished undertakings and future buildings, including engineering, purchasing, construction and traveling expenses plus a net profit of one-third of 10 per cent, which shall be a part of the profits to be shared with the United States as outlined below. It includes:

a—Completion Dam 2 with equipment totaling 360,000 kilowatts, sub-stations, transmission lines, etc.

b—Completion present steam plant to give 60,000 kilowatts additional capacity.

c—Construction of plant improvements as may be needed in the future.

d—Construction of Dam 3, Dam and Channel 1, when authorized.

e—Refitting and placing in operation Nitrate Plants No. 1 and No. 2 for fertilizer or nitrate production.

f—Place sulphuric acid plant connected with No. 1 and 2 nitrate units in operation.

8—Supply all necessary electric power needed for lock

operation, not in excess of 300 horse power for Dam 2 and 200 horse power for Dam 3.

9—The corporation shall continue and expand fertilizer production, the United States to furnish all money connected with operation. Power furnished for operating the nitrate units shall be charged to the Government at 10 per cent less than the going rate in Muscle Shoals district. One quarter of the developed primary power of the steam plant at Dam 2 and from Dam 2 and Dam 3 when completed shall be held available for the United States in fertilizer work, and in addition 100,000 kilowatts of secondary power from the two dams.

10—The corporation shall conduct research work on the general project, with funds provided by the Government.

11—A profit of 8 per cent of the current sales price of all fertilizers manufactured by the corporation annually shall be allowed, to be shared with the Government, the excess profit to go direct to the Government.

12—From the net earnings of the power plants alone there shall be deducted 8 per cent divided on the corporation's preferred stock. Out of the remaining net earnings a sinking fund shall be created on a basis adequate with interest compounded at 4 per cent annually to amortize in 50 years from completion of Dam 2, all moneys expended by the Government through the corporation under the terms of the lease, excluding that used for navigation purposes, and adequate to amortize one-half of the amount expended by the Government prior to the signing of the lease, but said one-half not to exceed \$15,000,000. Also to provide a fund to retire preferred stock before expiration of lease. Out of the remaining net earnings, provided sales exceed or equal 150,000 kilowatts primary power and fertilizer sales are sufficient to require 30,000 tons of nitrogen, a sinking fund shall be created to amortize with interest compounded 4 per cent annually the remaining original expenditure on Dam 2 and steam power plant at Nitrate Plant 2, not to exceed \$21,000,000.

13—After providing all funds designated in Sections 11 and 12 the corporation shall pay to the United States, coincidentally with any payment to common stockholders, a sum double the amount of such payment to stockholders during first 10 years of lease, and three times if thereafter. At the termination of the lease or its surrender the Government shall pay to the corporation: (a) at the then appraised value for all improvements made out of the earnings of the corporation, after deducting from the appraised value two-thirds, if added during first 10 years of lease and three-fourths is thereafter; (b) an amount equal to such cost or appraised value of such improvements paid for out of capital which has not been retired.

14—An extraordinary betterment and replacement fund shall be created from the share of the United States in the earnings, the amount to be fixed by the Advisory Committee.

15—After completion of Dam 2 and reasonable sale of power a fund not to exceed \$50,000 yearly for research shall be provided, before division of earnings with the United States. Upon completion of Dam 3 and reasonable sale of power this fund shall be increased up to a total of \$200,000 each.

16—All remaining profits shall be paid to a rotary fund controlled by the Secretary of War for general purposes of the enterprise.

17—That when the facilities at Nitrate plants 1 and 2 are needed for national defense the United States shall have immediate right upon 5 days notice to the corporation to take over and operate same. The corporation is to be protected from losses occasioned by such use and the property returned in as good condition as when received, and reasonable compensation paid the corporation.

18—The corporation shall operate all power plants forming part of the Muscle Shoals property, and transmit, distribute and sell all surplus energy not used by it, subject to the regulation and control of the Federal Water Power Act.

19—At the termination of the lease, if the United States does not operate such properties the corporation shall have preferred right to negotiate for sale or lease upon terms prescribed by Congress.

20—All laws in conflict are hereby repealed.

By a transposition of figures, the new building being erected by the Greensboro Daily News of Greensboro, N. C., which was illustrated last week in the MANUFACTURERS RECORD, was made to appear as costing \$615,000. The cost is \$165,000.

Reclaiming Rich Georgia Lands for Colonization.

By R. E. WHITE, Brunswick, Ga.

After lying dormant since the Civil War, thousands of acres of fertile lands of the Altamaha Delta, between this city and Darien, have recently been acquired by New York interests and are in process of restoration to their former high state of productivity.

This project will, it is estimated, represent an investment in excess of \$1,000,000, and add \$5,000,000 annually to the value of Georgia's farm products.

The promoters of this enterprise are Ralph Wharff, capitalist; William Dobson, capitalist and civil engineer, and O. C. Lamp, agricultural engineer and reclamationist, who is in command of the operations.

For almost two years Mr. Lamp has devoted his time to investigation and negotiations preliminary to the beginning of the physical reclamation and development work on these delta lands. He and his associates have had rather extensive experience in the promotion of enterprises of this sort, their operations having been confined for the most part to the semi-arid regions of the West. His attention was attracted to the once-famous "rice-lands" of the Altamaha Delta. He credits the Georgia Association's advertising and the aggressive activities of the agricultural department of the Atlanta, Birmingham & Atlantic Railroad with being largely responsible for his having given these lands consideration; and for the assistance to him in familiarizing himself with the Delta.

Mr. Lamp has been engaged for the two year period in reconnoitering the delta; surveying its soil; relocating and retracing its system of dykes, drainage ditches and canals; ascertaining ownerships of its lands; inspecting titles; negotiating purchases and options, etc. He has bought and optioned approximately 5000 acres once under cultivation and 4000 acres of similar lands that have always remained in virgin state, and 1000 acres of adjoining uplands that are covered with pine.

Across a narrow channel that bounds one of the delta islands, Mr. Lamp and his associates have acquired is St. Simons island, on which the Colony of Georgia was planted by General Oglethorpe, in 1730.

The islands constituting the delta were originally heavily timbered. The reclamation work of the pioneers was done by slave labor under the direction of engineers brought from Holland and how well that work was done is attested by miles upon miles of the dykes then constructed being in a perfect state today. All that is necessary now to put the land back under the same condition of water-control that obtained more than a century ago is to repair some breaks that have occurred here and there throughout the system of dykes, to clear the drainage canals and ditches of their accumulated earth and decayed vegetable matter, and to replace the trunk lines.

Mr. Lamp's plan, however, is to do more than that. He will clear the dykes, repair the breaks and put in new trunks of some durable material—either iron or concrete.

Butler's Island, containing 1300 acres, is the first to be restored to productivity, and already its entire system of dykes has been cleared of vegetation, its breaks repaired, and it is now ready for the installation of new trunks and for the enlarging process.

Reclamation work will be pushed on other islands of the delta group, until the entire delta has been restored to productivity.

Authorities estimate that the original reclamation process, carried out with slave labor, could not be accomplished today at a cost of less than \$500 per acre; but, of course, the work to be done now is more of a repair job, nowhere nearly so expensive as original construction.

None of this land, according to Mr. Lamp, is to be sold or

offered, until it is producing crops and completely equipped for habitation; and even then no tract will be sold until the prospective purchaser shall have lived on and farmed it for a year as a lessee on a 50-50 basis.

"We shall prefer to sell to a man with some capital—enough, at least, to keep him and his family in comfort while the first year's crops are being made," Mr. Lamp said.

"Before he goes onto the land both parties will have a complete, written understanding as to terms, purchase price, etc. The proceeds from the trial-year's crops will be divided equally; then, if both parties are completely satisfied, the farmer can buy the land, and we will give him all the time he wants up to 20 years in which to complete paying for it."

In the matter of advertising the land and the selection of settlers the developers are to have the active assistance and co-operation of the Georgia Association of which F. H. Abbott, Atlanta, is secretary.

The problem of marketing will be taken care of by the developers, through their own organization and strictly on a co-operative marketing basis, insuring the growers against cut-throat competition and market manipulation and juggling by commission men or other interests. Once a sufficient acreage of the land is put under cultivation to warrant it, it is the intention of Mr. Lamp and his associates to erect, probably at Darien, a canning factory to utilize that portion of the production that cannot profitably be marketed in fresh, or "perishable," state.

For centuries the Altamaha river has been carrying down to the sea its burden of silt and humus and soluble plant-food minerals. Its waters being checked and backed up by the ocean tides, these materials have been deposited day after day, until a soil has been built up, layer upon layer, forming the present delta, and of a degree of richness that is proverbial.

Government to Build Ohio River Dam at Ford's Ferry—To Cost \$5,000,000.

Caseyville, Ky.—A site at Ford's Ferry, Ky., near Caseyville, has been selected as the location for Ohio River dam No. 50 to be constructed by the government. It is estimated that the lock and guide walls will cost \$1,500,000, while the entire project, including the dam and power house, will involve an expenditure of \$5,000,000. The locks are to be located on the Kentucky side of the river and it is stated that bids for these, with the guide walls, will be invited about May 1.

Plans and specifications for the dam are being drawn under the supervision of Col. L. R. Lukesh, United States district engineer, Louisville, Ky. and these are expected to be completed by April 1.

The beginning of work on dam No. 50 it is said will leave but four more projects to be started before the Ohio River program shall have been completed and the river opened for navigation from Pittsburgh to the Mississippi.

Extending Use of Telephones for Train Dispatching.

Telephones will take the places of telegraph instruments for dispatching trains on the Southern Railway's line from Salisbury, N. C. to Knoxville, Tenn., 270 miles, when two copper wire circuits are constructed and telephone equipments installed at seventy-five stations. The work will begin as soon as materials can be obtained. Telephones will be employed in connection with operating the manual block signal system between Salisbury and Morristown, Tenn., but on the 42 miles of double track from Morristown to Knoxville, electric automatic block signals are used. The telephones will also be used for message service. This telephone service is an extension of the service which the company is already using on several of its lines.

Extensive Additions to Facilities of Southern Power Company.

To the already enormous output of electrical energy in the Carolinas the Southern Power Company, Charlotte, is adding by the erection of a 40,000 horsepower steam electric plant at Duncan, N. C., and a 40,000 horsepower hydro-electric plant at Rhodhiss, N. C. in an endeavor to supply the ever increasing demand for light and power facilities. Its Mountain Island hydro-electric plant of 80,000 horsepower was completed and placed in operation in January.

These new expansions are in addition to the company's 1923 program involving the expenditure of \$16,000,000. That program provided for the building of two new hydro-electric power plants, including the Mountain Island station and additions to two steam-electric plants, which added 200,000 horsepower to the company's generating capacity. The construction of about 200 miles of transmission lines and erection of related transformer and switching stations and auxiliary improvements was also necessitated. Before these improvements were completed applications were received for power far in excess of the supply, hence the necessity for continued expansion this year, following favorable action of the State Corporation Commission on the petition of the company for increased power rates.

Details regarding the Mountain Island plant and the two projects now under way are outlined briefly by W. S. Lee, vice-president and chief engineer of the Southern Power Company, as follows:

Mountain Island Hydro-Electric Station.

This plant was completed and put on line in January, 1924. Its equipment consists of:

Four—20,000 h. p., vertical type, single runner, hydraulic turbines, built by the S. Morgan Smith Company, York, Pa.

Four—18,750 k. v. a. generators, 660 volts, 3 phase, vertical type, water-wheel driven, Allis-Chalmers Manufacturing Co., Milwaukee, Wis.

Four—18,750 k. v. a. transformers, of the outdoor type, which were furnished by the General Electric Company of Schenectady, N. Y. These people also furnished switchboard equipment.

One set of two headgates, electrically operated, for each unit, which were furnished by the M. H. Treadwell Co., New York, N. Y.

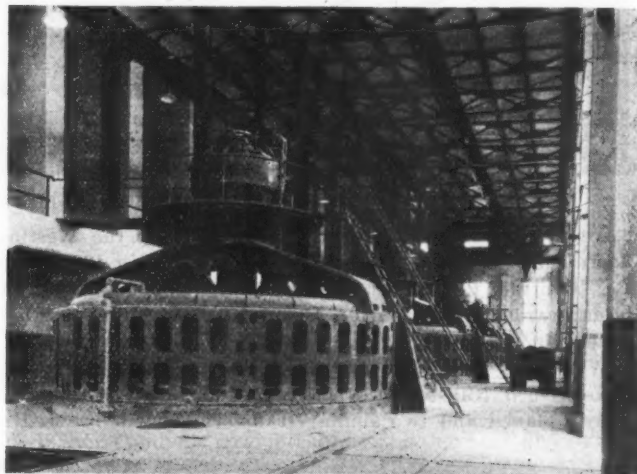
The powerhouse is of steel framework, furnished by

Shoemaker-Satterthwait Bridge Company, Philadelphia, Pa., encased in brick.

Rinehart & Dennis Company, Inc., of Charlottesville, Va., had contract for all foundations and the placing of all masonry.

Tiger Steam Station.

The Tiger steam station is to be located near Duncan, S. C., and is being constructed by the company's own forces. There will be installed in this station eight—1200 h. p. Stirling type



INTERIOR OF POWERHOUSE

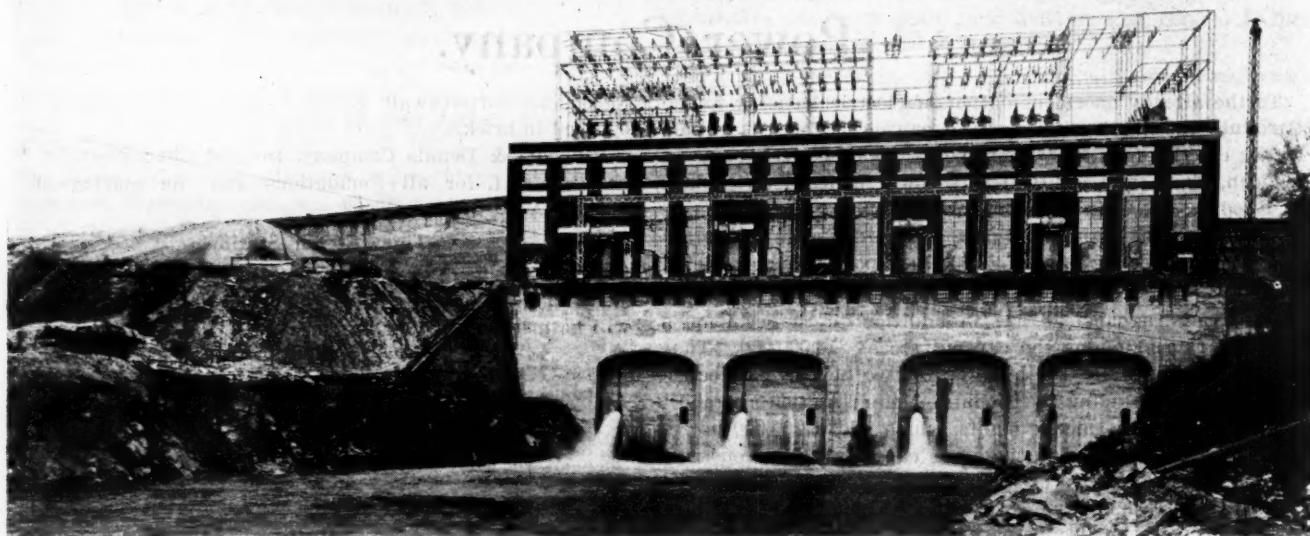
boilers, which are being built by the Babcock & Wilcox Co., of New York; and two—18,750 k. v. a. steam turbines which are being built by the General Electric Company of Schenectady, N. Y.

Rhodhiss Hydro-Electric Station.

The Western Carolina Power Company is constructing a hydro-electric station at Rhodhiss, N. C., which will be known as the Rhodhiss Station. There will be installed in this station three single runner, vertical hydraulic turbines of 15,000 h. p. each, which are being built by the S. Morgan Smith Company, of York, Pa. There will also be installed three vertical type generators of 12,500 k. v. a. each, with the necessary transformers for stepping up from generator volt-



SPILLWAY OF MOUNTAIN ISLAND POWER PROJECT OF SOUTHERN POWER CO.



EXTERIOR OF POWERHOUSE AND TAILRACE

age to 100,000 volts, which are being built by the Westinghouse Electric & Manufacturing Company of East Pittsburgh, Pa. Contract for the construction of the Rhodhiss Plant has been awarded to Rinehart & Dennis Company, Inc., of Charlottesville, Va.

What are described as "America's largest three phase, water-cooled transformers" have been installed at the company's plants, and two similar transformers will be used at

25,000 k. v. a. at 55 degrees. Four of these are in use at the Mountain Island plant, three at the Dearborn plant, two at the University steam plant, and two at the Mount Holly steam plant.

\$500,000 Power Plant Planned for Colorado River—Would Build 600-Foot Dam.

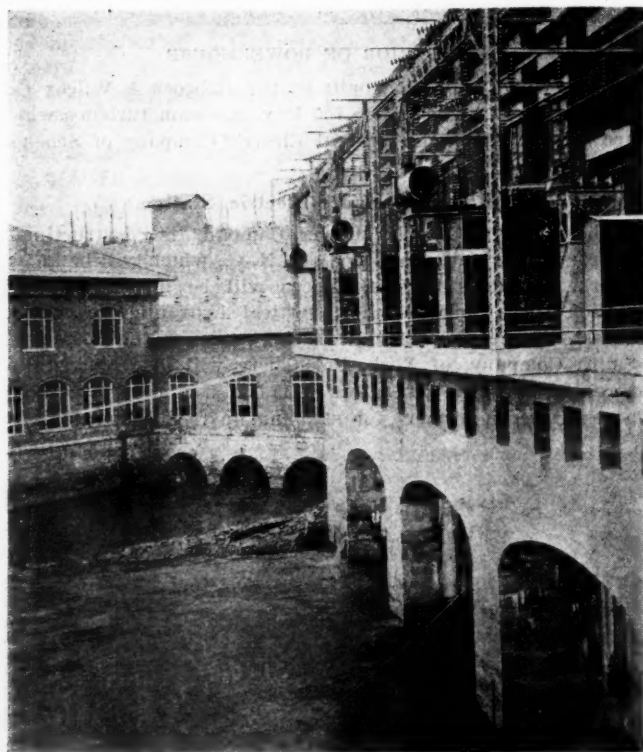
Columbus, Tex.—A \$500,000 hydro-electric power plant to be built on the Colorado River near Columbus, is being considered by the Columbus Power & Light Co., which has organized with Dr. A. S. McDaniel of San Antonio, president, and O. A. Zumwalt, secretary. The new company has secured certain franchise rights for digging canals, etc., and will have a hearing on March 24 before the Board of Water Engineers at Austin, with a view to securing rights to dam the Colorado River.

Tentative plans provide a dam 600 feet long, 6 feet at the top and a base and apron of sufficient length to take care of the wash. Sheet piles will be used as ties to the bank. With the construction of the dam, a lake 10 miles long, having an average width of 450 feet and an average depth of 7.6 feet, will be formed. It is planned to build a dam of the overflow type, of solid construction with light reinforcement. By taking advantage of a bend in the river, it is estimated that a fall of 23 feet may be obtained by the construction of a 12-foot dam, as is proposed. B. H. Faber of Columbus is the engineer.

New Bauxite Deposit Reported Near Rome, Ga.

Rome, Ga., March 8—[Special.]—The Chamber of Commerce here announces the discovery of a large deposit of bauxite six miles from Rome. Starting back over half a mile in the valley below, mountain test holes have been made showing a ten-foot vein. These holes continue on up the mountain and indicate that the vein takes the conformation of the mountain itself.

On the sides of the mountain, shafts over eighty feet deep have been dug, showing a good quality of bauxite all the way, and there is said to be only a four-foot overburden over the entire deposit, making it a steam shovel proposition. Bauxite in this section usually runs in pockets and this deposit is remarkable from the fact that the supply is reported as practically unlimited. The deposit was discovered by H. H. Shackleton who also supervised the sinking of test shafts. An analysis is said to show the deposit free from the usual iron ore stains.



24,500 KVA TYPE "H" TRANSFORMERS OF SOUTHERN POWER COMPANY

the new Tiger steam plant at Duncan. They are of the outdoor type of 102,000/6600 volts, 3 phase, 60 cycles, made by the General Electric Company, Schenectady, N. Y. They were shipped completely assembled and filled with oil despite the fact that they are called the largest transformers of this type ever built, and weigh approximately 70 tons each. They are rated at 18,750 k. v. a. on a 40 degree rise basis, their capacities being 24,500 k. v. a. at 50 degrees and in excess of

Expansion of Refinery and Rolling Mill of International Nickel Company at Huntington.

The International Nickel Company,
67 Wall Street.

New York, March 1.

Editor Manufacturers Record:

We have recently completed, or have in progress at Huntington, W. Va., various extensions to buildings and equipment, all of which will enable this company in the future not only to supply the market with an increased quantity of monel metal and malleable nickel, but also to meet a larger number of specifications than has been the case heretofore.

Improvements have been completed in connection with the refinery roasting furnaces, particularly through the application of specially designed mechanical feeders and through the installation of combustion apparatus supplied by the Maxon Furnace and Engineering Company of Muncie, Ind., which give both increased production and improved product from these furnaces.

In the refinery where we have at present two electric furnaces and two open hearth furnaces for the production of monel metal and malleable nickel in ingot form, we have recently completed an important extension of this department, so that the building is now 300 feet long, with a main span of 80 feet and a lean-to of 30 feet. This extension, the contract for which was placed with McClintic-Marshall Company of Pittsburgh, provides additional floor space to care for increased tonnage, and advantage has been taken to incorporate in this building a No. 8 'Lectromelt Electric Furnace, supplied by the Pittsburgh Electric Furnace Corporation of Pittsburgh, Pa. The installation will be used for experimental and development work and the production of special orders, the size of which are not large enough to justify the use of the larger furnaces.

Tests have been carried out with both oil and natural gas, separately and in combination, in connection with the open hearth furnaces, and these are now operated with natural gas through Maxon Furnace and Engineering equipment and are so equipped that in case of emergency a quick change can be made to oil fuel.

An additional oil storage tank of 250,000 gallons capacity has been erected, this contract having been carried out by the Chicago Bridge & Iron Works, of Chicago, Ill. The fuel oil service is handled by either tank cars or from barges through connection between the works to the Ohio River.

In the merchant mill there have been no extensions of buildings, but improvements have been made in both furnaces and machinery. All the heating furnaces are equipped for the use of natural gas with burners supplied by the Surface Combustion Company of New York City, the results obtained being in every way satisfactory.

In connection with the 10-inch and 14-inch Mills, Sutton-Abramsen stretcher straighteners have been installed, these being supplied by Manning, Maxwell & Moore, Inc., of Pittsburgh, Pa., and incidental to this installation improvements have been made in the cooling beds.

For use on general maintenance in this department, a 300 ampere electric arc welder of the portable type has been purchased from the Lincoln Electric Company of Cleveland, Ohio.

In the sheet mill, improvements are still in progress and include two 30-inch x 36-inch electric heaters for heating sheet mill rolls. This installation was supplied by Freyn Brassert & Company of Chicago, and is very successful and somewhat of a novelty, as this method of heating rolls has only been carried out in a few mills and is a development of recent date.

A scrubbing and drying machine has been ordered from the Massillon Foundry and Machine Company of Massillon, Ohio.

An additional department of the works is in progress of

construction for the pickling of sheets, rods and bars, for which a Mesta low-type four-arm steam operated pickling machine has recently been installed, together with the usual tanks for pickling and washing. Pickling crates specially designed and constructed from monel metal are used with success in this department.

The increased demand for these materials in the form of cold drawn wire and rods has necessitated additional facilities in order to handle this work. A heavy duty draw bench purchased from the Vaughn Machinery Company of Cuyahoga Falls, Ohio, was installed some months ago, and after considerable experimental and development work a very satisfactory product in cold drawn rods is now produced in rounds, hexagons and some special shapes. Considerable tonnage of cold drawn monel metal is being used throughout America for pump rods, valve stems and sundry machine parts.

Orders have been placed with the Vaughn Machinery Company for special heavy-duty bull blocks for drawing up to $\frac{3}{4}$ -inch diameter. Orders also have been placed with the F. B. Shuster Company of New Haven, Conn. for the necessary vertical wire reels.

A four-roll continuous pointing machine has been ordered from the Vaughn Machinery Company.

Other miscellaneous equipment recently ordered include portable coiling machines from the Blake & Johnson Company, Waterbury, Conn. and a high-tension strip reel to be supplied by the Duston & Clarke Engineering Company of Cleveland, Ohio, for use in connection with the production of strip; a No. 6 blanking press and dies supplied by the E. W. Bliss Company of Brooklyn, New York; a 12 roll straightening machine supplied by the Torrington Manufacturing Company, Torrington, Conn. for straightening round, hexagon and square rods, and orders have been placed for polishing machines with Motch & Merryweather Machinery Company of Cincinnati, Ohio, which machines will be used in connection with sheet products.

A Yoder gang slitter and levelling machine has been purchased from the Yoder Company of Cleveland, Ohio, and many other items have been added to the already very complete equipment at these works.

In connection with the electrical equipment, a synchronous condenser of 2000 kva capacity has been purchased from the Westinghouse Electric & Manufacturing Company. This installation will so improve the power factor in connection with the electric power supply that considerable economies in power costs will be effected.

W. L. WOTHERSPOON,
Consulting Engineer.

Consolidation of Power Companies Authorized.

Authority has recently been granted by the Public Service Commission of the state of Maryland for the organization of the Youghiogheny Hydro-Electric Co. and its consolidation with the Youghiogheny Power Co. and the Youghiogheny Water & Electric Power Co., the new company to take over all franchises and properties of the other companies. Application was made a few weeks ago to the Maryland State Tax Commission for a charter of incorporation for the new company with an authorized capital stock of \$13,000,000. Action has been deferred by the commission on the request of the consolidated company to issue \$7,750,000 of securities pending an examination of an indenture securing a proposed bond issue of \$2,750,000.

As previously reported by the MANUFACTURERS RECORD, the Youghiogheny Power Co. and the Youghiogheny Water & Electric Power Co. are actively engaged in developing water power of the Youghiogheny River and its tributaries in Garrett County, Maryland, and are undertaking the construction of four dams and three power stations.

750,000 BARREL CEMENT PLANT UNDER WAY. Clinchfield Portland Cement Corporation Breaks Ground for \$1,000,000 Group Near Macon.

Work has been started on a \$1,000,000 cement plant, to have an initial capacity of 750,000 barrels annually, at Coreen about 23 miles below Macon, Ga., on the Georgia, Southern and Florida division of the Southern Railway, by the Clinchfield Portland Cement Corporation, of Kingsport, Tenn., which has been operating a plant in that place for about thirteen years. The tract was acquired last year, but beginning of actual construction was deferred until this time. Plans call for completion by January, 1925. All the engineering and construction work will be under the supervision of the general management of the Clinchfield Corporation.

The new mill, which will use the wet process, will embody every scientific appliance for the making of high grade cement on a large scale. All units will be equipped with individual electric motors. The plant buildings will be of steel and concrete construction, so designed and arranged that the output may be increased as trade conditions justify.

The site has excellent railroad facilities. Details regarding the acquisition of this tract and the preliminary announcement regarding erection of the new plant were published last year in the June 28 issue of the MANUFACTURERS RECORD.

The officers of the Clinchfield Portland Cement Corporation are President, John A. Miller, Nazareth, Pa.; vice-president, H. R. Dennis, New York City; secretary, E. G. Woodling, New York City; sales manager, Morris M. Hunter, Kingsport, Tenn.

Trying to Cut Cost of Railroad Operation.

Since the Government returned the railroads to their owners operating expenses, as a result of methods prevailing during the war, have been large and in the case of the Pennsylvania Railroad have in some months reached as high as 85 per cent of gross earnings. Before the war operating expenses on this railroad ranged from 71½ to 72½ per cent of gross and, according to a report from Philadelphia, the operating officers of the company are now trying to keep down operating costs for March to a ratio of 70 per cent in order to restore in some degree the prewar proportion of cost to revenue. In January the operating ratio was 80 per cent of gross; in February it was 79 per cent. There are about 207,000 men on the payrolls of the company or from 6000 to 7000 more than there were a month or so ago, expanding traffic demands making this increase necessary.

Plan \$1,000,000 Hotel for Greensboro.

Greensboro, N. C.—The construction of a 250-room hotel here to cost about \$1,000,000, is planned by J. E. Latham Co. of this city, with provision for the addition of 200 rooms later if needed. Plans are being prepared by G. Lloyd Preacher & Co., of Atlanta, Augusta and Raleigh, for a building on a site 140 by 200 feet. Although actual dimensions of the building have not been determined, it is thought the structure will be eight or nine stories high, with a roof garden as an important feature. Plans are expected to be completed with six weeks.

Professional Building at Louisville to Cost \$800,000—Construction to Begin This Spring.

Louisville, Ky.—Announcement has been made here by Clarence J. Stinson, architect, that construction on the proposed \$800,000 Professional Building will be started by June 1. The building will be eight stories and will be occupied exclusively by physicians and dentists. Ownership of the building, it stated, will be vested in the tenants on a co-operative basis.

Contracts for Two Important Buildings at Huntington—Structures to Cost Over \$1,500,000.

Huntington, W. Va.—Contracts have been awarded here for the new buildings to be erected for the Coal Exchange Building Co. and the Union Bank & Trust Co., the total cost of which is estimated at more than \$1,500,000. For the erection of the former, Higginbotham & Jones of Charleston, W. Va., was awarded contract. This will be a fireproof structure 14 stories high, Gothic architecture, reinforced concrete, steel, terra cotta, stone and brick and will occupy a site 60 by 170 feet. It will contain a total of 425 offices and will be served by four elevators.

Contract for the building of the Union Bank & Trust Co. was awarded to the George A. Fuller Co. of New York. This will also be a 14-story structure of steel, occupying a site 60 by 90 feet, and will cost in excess of \$500,000. Meanor & Handloser of Huntington are the architects for both buildings.

Contract for \$250,000 Store at Tulsa.

Tulsa, Okla.—The Vandever Dry Goods Co. has awarded contract to Rucks & Brandt of this city, for the erection of its proposed \$250,000 store. The building will be six stories, 60 by 135 feet, on a lot 60 by 150 feet. It will be of reinforced concrete trimmed with brick, stone and terra cotta, fronting on Fifth street, with three entrances. Three high speed elevators will be installed. Atkinson & Olston of Tulsa are the architects.

Contract for Davidson College Building.

Davidson, N. C.—Contract has been awarded to Blythe & Isenhour of Charlotte for the erection of the first of three units to be erected here for Davidson College, replacing Chambers Hall building burned about two years ago. This unit will cost \$150,000 and the completed units about \$500,000. The remaining two units will be erected as funds become available. Henry C. Hibbs of Nashville, Tenn., is the architect.

New \$250,000 Apartment Building for Miami.

Miami, Fla.—Plans are being prepared by Martin L. Hampton of this city for a new \$250,000 apartment here to be erected by J. H. Scott of the Florida East Coast Hotel Co., and associates. The building will be four stories, of concrete and tile construction, fireproof, and of Spanish architecture. Elevator service will be provided. It is expected to have the structure ready for occupancy by November.

Apartment Building at Dallas to Cost \$1,000,000.

Dallas, Tex.—Negotiations have been completed by the Maple Terrace Apartment Co., a new organization here in which John H. McDonough and others are interested, to erect a \$1,000,000 apartment at Maple avenue and Wolf street. The structure will be eight stories and will contain seventy apartments. Alfred C. Bossom of New York is the architect.

Contract for \$200,000 Store at Charlotte.

Charlotte, N. C.—Contract for a new building at 403 S. Tryon Street to cost about \$200,000, has been awarded to Blythe & Isenhour of this city by W. T. McCoy & Co., furniture dealers. The structure will be six stories, 42 by 200 feet, of brick construction, with limestone trim and plate glass show windows. C. C. Hook of Charlotte is the architect.

Sealed proposals will be received until March 18 by the Board of Commissioners of Charlotte, N. C., for the construction of two reinforced concrete bridges. Joseph Firth is the city engineer.

To Build \$250,000 School at Coral Gables.

Miami, Fla.—Information received here from St. Augustine, indicates that the Sisters of St. Joseph of that city, will soon begin the construction of the first unit of the \$250,000 school they will erect in Coral Gables, Miami. The site of the school embraces an area of six acres, and it is stated that the first building will be three stories, although the central portion will rise above the regular roof level.

The first floor will be devoted to the sisters and students' dining room, pantry, kitchen, reception room and several class rooms. On the second floor there will be about fourteen class rooms, each 25 by 32 feet, sisters' dormitories, general and private reception rooms, offices and infirmary, while the third floor will contain 25 dormitory rooms, two general dormitories with 30 beds each, library and other facilities. W. C. DeGarmo of Miami is the architect.

Acquires Holding of Humphreys Oil Company for \$30,000,000.

The Pure Oil Company of Columbus, Ohio, in a telegram to the MANUFACTURERS RECORD, states that it has acquired all outstanding stock of the Humphreys Oil Company of Houston, Tex., and that the latter company dissolved as of March 1. In this deal the purchasing company acquired all assets of the Humphreys company, the transaction involving a reported consideration of \$30,000,000.

Negotiations for the transfer of these properties were begun several months ago, when the Pure Oil Company secured an option to purchase a large block of stock at \$50 per share. It is stated that a large number of tracts in the Golden Lane section of Mexia, Texas, are involved in the transfer.

Transfer of \$12,000,000 in Gas Properties.

Huntington, W. Va.—A deal has been announced, said to involve from \$12,000,000 to \$14,000,000, whereby the Columbia Gas & Electric Co. of Cincinnati and New York, acquires control of several distributing companies in Ohio, including the Columbus Gas & Fuel Co., and the Federal Gas & Fuel Co., both of Columbus; the Dayton Gas Co. and the Springfield Gas Co.

The Columbia Gas & Fuel Co. has a large gas development in Cabell County, West Virginia, in the region back of Huntington centering around Branchland. A subsidiary, the United Fuel Gas Co. of Charleston, supplies it from the Roane, Kanawha and other fields tributary to Charleston.

\$800,000 Church and Office Building for Tulsa.

Tulsa, Okla.—The First Baptist Church of this city, Dr. W. O. Anderson, pastor, contemplates the erection of a new seven-story church and office building to cost \$800,000 on the site of the present structure. The building will be 100 by 140 feet, and is designed to provide an auditorium of ample proportions, with Sunday School accommodations for 3000. It is understood that three floors will be available for renting as fine art studios. As the work of the church develops and the building is paid for, it is the aim of the church to utilize the entire structure. I. W. Shannon is the chairman of the building committee.

Plans Approved for \$500,000 Y. M. C. A. Building.

Shreveport, La.—Plans have been approved by the board of directors of the Young Men's Christian Association here for the erection of its proposed \$500,000 building. Clarence W. King of Shreveport is the architect and plans have been drafted with the assistance of the architectural board of the National Young Men's Christian Association with offices in New York. C. R. Minor is chairman of the local building committee.

Equipment Contract for Big Hydro-Electrical Development in Canada—Southern Men in Charge of Construction.

The Canadian Westinghouse Co., Ltd., of Hamilton, Canada, writes the MANUFACTURERS RECORD as follows relative to contracts it has received for equipment to be installed in the Isle Maligne station on the Saguenay River:

"Our company secured contract from the Quebec Development Co., Ltd., for eight 13,200 volt, 30,000 k.v.a., 60 cycle, 3-phase, vertical generators, 112½ r.p.m., which we are now manufacturing for installation at Isle Maligne station on the Saguenay River, Quebec. These generators are equipped with Kingsbury thrust bearings and will be driven by water-wheels supplied by the Canadian Allis-Chalmers, Ltd., Toronto. The hydraulic development and power house are being prepared for four additional units or a total of twelve. It is expected the first units will be in operation the latter part of the year."

As reported in the MANUFACTURERS RECORD several months ago, the Quebec Development Co., Ltd., in which J. B. Duke, of Charlotte, N. C., and New York, and Sir William Price, of Canada, are prime movers, plans to generate 480,000 horsepower at the Isle Maligne station, and upon the completion of this plant, to begin a second development about 20 miles away on the same river which will develop 1,000,000 horsepower.

W. S. Lee, vice-president and chief engineer of the Southern Power Co., of Charlotte, holds similar positions with the Canadian company, while Frank H. Cothran, a native of South Carolina and until recently a member of the engineering staff of the Southern Power Co., is vice-president of the Canadian company and in charge of construction of the Isle Maligne station.

Expanding Operations of Bon Air Chemical Company in Tennessee.

Nashville, Tenn., March 15—[Special.]—The Bon Air Coal & Iron Corp. has placed the chemical division of their business under the supervision of a new subsidiary, the Bon Air Chemical Co., according to Wm. J. Cummins, vice-president and general manager.

The new company has taken over the wood distillation and by-products operations, limestone quarries, charcoal iron furnaces, plant equipment, railroad terminals, locomotives, cranes, stocks of raw materials, etc., pertaining to the chemical department. It expects to take over from the government the Collinwood, Tenn., properties consisting of the Tennessee Charcoal Iron Co. and the Wayne Wood Products Co., which are about 75 miles south of the company's (Lyles, Tenn.,) wood distillation and by-products operations. They will be controlled by the Bon Air Chemical Co., with a capital of \$5,000,000 preferred and \$5,000,000 common stock. It is believed that the transfers will be made this month.

This will permit a daily consumption of 400 to 500 cords of hardwood to be put in the retorts of these two plants. The products include wood alcohol, acetate of lime, charcoal, flotation oils, pitch, and other tar derivatives.

The work of rehabilitating the Collinwood plants will be under the supervision of E. V. Rawn, chief engineer for the company.

Cotton Movement from August 1, 1923, to March 7, 1924.

	1924 Bales	1923 Bales.
Port receipts	5,759,719	4,944,430
Port stocks	742,962	699,502
Interior receipts	6,674,282	6,613,900
Interior stocks	736,133	835,175
In sight	9,862,532	9,403,866
Northern spinners' takings	1,442,522	1,809,122
Southern spinners' takings	3,024,125	3,431,960
World's visible supply of American cotton..	2,688,505	2,629,677

THE IRON AND STEEL SITUATION

Quieter Market in Steel.

Pittsburgh, Pa., March 10—[Special.]—From January to February the rate of pig iron production increased by 8.9 per cent, and the rate March 1 was 14.8 per cent above the rate last December, which had been the low month since October, 1922. Production is now at a rate just under 40,000,000 tons a year, or a shade under the average rate in 1923, when a new record was made for production, and just above the rate in 1916, the second best year.

The New York Central line, reported a week ago to have bought 14,500 freight cars, has bought 1000 additional, and has options on 3000 more. The Pennsylvania Railroad has distributed orders for 11,000 all steel box car bodies, in addition to 1000 ordered about a month ago. This includes 9000 regular box car bodies, 2000 automobile bodies and 1000 stock bodies. Trucks are provided separately.

Freight cars ordered since January 1 now total close to 55,000, which with orders on books January 1 make a total of nearly if not quite 100,000 freight cars for this year's building. Last year's production of freight cars was the largest in ten years, at just under 180,000, so that a rate of 15,000 cars a month may be considered good employment for the car shops. As the shops have not produced many cars thus far this year they may be regarded as comfortably sold up for six months.

An interesting point about this is that other lines are not as well sold up, whereas the prognostications last December were chiefly along the line that 1924 was going to be a big year in steel but that not a great deal could be expected in freight cars, the railroads being already in good shape as to cars.

Fabricated steel contracts let in the past week are reported at 15,000 tons, against 26,000 tons in the preceding week, new business coming out being 9000 tons against 45,000 tons the preceding week. Fabricated steel has not been altogether as active since January 1 as in December, which was an exceptionally big month. Approximately as much work is now in progress or under contract as at this time last year.

Apart from activity in freight cars and fabricated steel jobs, the steel market has been quieter in the past week, and there has in fact been somewhat decreasing activity for three or four weeks past, making quite a contrast with January, when buyers were placing orders very freely and mills were selling much more steel than they were shipping.

There is no change visible in steel consumption, which undoubtedly is at a very high rate. This, indeed, is attested by the heavy deliveries, for steel production continues at its former rate, and it is the general observation that buyers are conservative and are taking only such steel as they actually need for immediate consumption or distribution. In January there was no little talk about jobbers and manufacturing consumers being disposed to stock up.

Except in certain directions the steel mills are by no means well sold up. It is a matter of common remark that the state of mill order books is altogether different from that which has obtained in times past when there was any activity, mills being then sold far ahead. There is no prospect of prices advancing, and steel mills and railroads are giving such excellent service in the matter of deliveries that consumers and distributors do not need either to buy far ahead or to maintain large stocks.

In spots here and there the steel market is a trifle easier than a week ago. In general the steel market is not as firm as it was in January but it is probably firmer than in November and December. Certain lines have been perfectly firm right along, including in particular merchant pipe, wire products and tin plate. Sheets are being shaded a little

more than in January but not as much as in December. Plates have lately weakened, as already reported, and there is more talk of concessions being made on small and moderate sized orders for shapes, this condition being confined largely if not wholly to the East. Merchant bars are very firm.

While no decreases in mill operations are reported and there have been various reports of increases in spots it is doubtful if steel production as a whole has increased to any extent in the past two or three weeks. The rate was already a very high one, above the average rate in 1923, which year showed 35 per cent more production than the average of the four years preceding.

Naturally there are more chances of steel production decreasing than increasing for the balance of the year, but quite heavy production is regarded as certain up to midsummer at least. As to steel prices, the conduct of the market in the past few months shows that there is no danger of breaks. Mills are operating on what they consider a small margin of profit, by reason of the increases in wage rates in the past twelvemonth. Now and then one steel line or another may sag a little, the lower price then becoming firmly the market.

Pig iron continues very dull, with prices substantially unchanged. About half the prospective buying of Connellsville furnace coke for second quarter was done recently and the remaining consumers are disposed to wait, probably to buy their coke from month to month. The spot furnace coke remains firm at \$4.25.

Encouraging Outlook in Birmingham District.

Birmingham, Ala., March 10—[Special.]—Southern furnace interests have sold pig iron well into the second quarter. There has been some little lot buying recently and those companies in position to handle business for delivery at once have made sales. Inquiries are coming in for third quarter needs, though not in volume. The quotations continue at \$23 to \$24, No. 2 foundry, with the \$23.50 per ton price the most popular. The production schedule is to be maintained as at present.

Iron is being shipped from the Birmingham district into sections west of the Ohio and Mississippi rivers. Many of the smaller consumers of pig iron are buying in small lots. The larger buyers are holding off for the time being, but it is known there will be need for the product a little later or before orders in hand or in prospect have been filled. The cast iron pressure pipe manufacturers have purchased considerable iron for future melt, but it is evident there will be need for considerable more tonnage during the year. The same can be said of the sanitary pipe trade; these plants are speeding up production every week.

Production figures are most satisfactory. The Woodward Iron Company produced more iron last month by nearly 3200 tons than during any February in the history of the company. Other furnace interests in the district had a favorable month. There has been further reduction of the surplus iron stocks.

Cast iron pipe makers report steady business. Soil pipe and fittings producers are receiving more orders than for several months, and indications point to additional substantial orders as the cold weather ends. The pressure pipe plants here, five in number, not counting the Chattanooga plant, are all producing steadily and shipments to all sections continue. The weekly reports in this trade are interesting and inasmuch as pipe makers have been the steady stand-by so to speak of the furnace interests their activity has been encouraging.

Slight deflection is reported in steel production in this district, though the general conditions continue active. Some of the finishing mills have to work overtime to keep up with

demand. Wire and nails are being produced at a steady pace while the rail mill at Ensley has a full order book to handle. Structural steel works, fabricating plants, are looking forward to continued activity. Announcement that the Bessemer Coal, Iron & Land Company had taken a considerable interest in the Nashville Bridge Company, which during the past year erected a plant at Bessemer, 12 miles from Birmingham and is now completing a subsidiary plant—a galvanizing iron works, and that Henry L. Badham, president of the Bessemer Coal, Iron & Land Co. has been elected a member of the board is regarded as a significant move.

It is reported that there will be further development of the bridge works at Bessemer as the demand warrants.

The coal mining industry apparently is in splendid shape. Weekly car loadings indicate a large quantity of coal being mined. Chief State Mine Inspector C. H. Nesbitt is working on the annual coal production report and indications are that the total will go around 20,000,000 tons. This will be about the second highest output in the history of coal mining in Alabama. A remarkable showing is made by the Edgewater mines of the Tennessee Coal, Iron & Railroad Company, the production going above the 1,000,000 ton mark for both 1922 and 1923. It places this mine in a class with some of the larger mines of the country. The conservative estimate is that the coal production this year will be equal to that of 1923.

The DeBardeleben Coal Corporation is shipping coal to Cuba and South America while their domestic trade is good. The Deep Water Coal Company, announcement of which was given out the past week, will hardly be ready to ship coal in any quantity until next year. Priestly Toulmin and Herbert Tutwiler and other associates are opening a mine in the northern part of Jefferson county and installing a coal washer. Moss & McCormack are now surveying for a railroad line from Galloway, in Walker county, to coal lands in Fayette county, a distance of 2½ miles, where coal will be mined from government lands, a royalty to be paid for the coal.

The coke trade shows no improvement but the make is holding the same pace as noted for the past several weeks. No change in quotations is reported, ranging from \$5 to \$6.50 per ton.

The scrap iron and steel market is quiet. The lull which set in with the quieting down of the iron market continues. Quotations have lost no ground in the past few days but dealers are not at all at ease. No new business is being reported. Stocks on hand are in splendid shape. Yard forces are being maintained in order that there can be an immediate acceptance of business.

PIG IRON

No. 2 foundry, 1.75 to 2.25 per cent silicon, f.o.b. furnaces, \$23.00 to \$24.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$23.50 to \$24.50; iron of 2.75 to 3.25 per cent silicon, \$24.00 to \$25.00; iron of 3.25 to 3.75 per cent silicon, \$24.50 to \$25.00; iron of 3.75 to 4.25 per cent silicon, \$25.00 to \$26.00; charcoal iron, f.o.b. furnaces, \$33.00 to \$34.00.

OLD MATERIAL

Old steel axles	\$19.00	to	\$20.00
Old iron axles	21.00	to	21.50
Old steel rails	12.00	to	13.00
Heavy melting steel	14.00	to	15.00
No. 1 cast	20.00	to	20.50
Stove plate	15.50	to	16.50
No. 1 R. R. wrought	12.00	to	13.00
Old car wheels	16.00	to	17.00
Old tramcar wheels	17.00	to	18.00
Machine shop turnings	7.00	to	9.00
Cast iron borings	9.00	to	10.00
Cast iron borings (Chem)	15.00	to	16.00

Steel Exports Expand—January Shipments Largest in Almost Two Years.

Exports of iron and steel from the United States in January amounted to 249,126 long tons, the greatest tonnage shipped abroad in any month since February, 1921, says the Iron and Steel Division of the Department of Commerce. The January exports were nearly 50 per cent greater than the

monthly average of 167,430 tons for 1923 and were double the tonnage exported in January, 1923.

A large percentage of the January, 1923, foreign steel trade was with Japan, which took almost 115,000 tons of American iron and steel products. This is nearly 65,000 tons above the monthly average of shipments to that country during 1922 and about 85,000 tons above the monthly average for 1923. The outstanding Japanese purchases for January included 46,416 tons of black sheets, 6330 tons of galvanized sheets, 13,330 tons of tin plate, 17,426 tons of rails, 9053 tons of tubular products, 3323 tons of wire, and 7975 tons of wire nails.

Importation of iron and steel declined only one per cent from the December volume, the amount of foreign iron and steel that passed through American custom-houses in January being 26,677 long tons. This is only 44 per cent of the monthly average of 61,230 tons of iron and steel imported during 1923.

Monthly Report of Steel Ingot Production.

Herewith is the monthly production of steel ingots, from January, 1923, to February, 1923, as reported for 1923, to the American Iron & Steel Institute, by companies which made 95.35 per cent of the steel ingot production in 1922.

Months 1923.	Open- hearth	Bessemer	All other	Monthly production companies reporting	Calculated monthly production companies	all	No. of working days	Approximate daily production all companies	Gross tons
Jan.	2,906,892	728,270	9,467	3,644,629	3,822,360	31	141,560		
Feb.	2,613,564	689,903	10,797	3,294,264	3,454,918	24	143,955		
March	3,046,300	799,525	12,841	3,858,675	4,046,854	27	149,883		
April	2,974,579	735	13,933	3,760,997	3,944,412	25	157,776		
May	3,136,558	818	16,719	4,000,695	4,195,800	27	155,400		
June	2,821,239	731	15,483	3,574,567	3,748,890	26	144,188		
July	2,658,449	690,884	11,496	3,350,829	3,514,241	25	140,570		
Aug.	2,796,370	701,059	9,326	3,506,755	3,677,771	27	136,214		
Sept.	2,751,490	613,709	8,602	3,173,801	3,328,580	25	133,143		
Oct.	2,724,371	649,452	9,163	3,382,986	3,547,966	27	131,406		
Nov.	2,343,368	616,335	9,309	2,969,012	3,113,804	26	119,762		
Dec.	2,130,613	570,004	10,912	2,711,529	2,843,764	25	113,751		
Total ...	32,703,802	8,386,889	138,048	41,228,739	43,239,369	311	139,033		
Jan. 1924.	2,752,932	667,032	12,577	3,432,541	3,599,938	27	133,331		
Feb.	2,894,872	695,905	14,085	3,604,862	3,780,663	25	151,227		

Conspicuous Advantages of Non-Union Labor.

A report from New Orleans says that the elimination of union longshore labor has caused greatly increased efficiency in the loading and unloading of vessels with savings to shippers in consequence, according to the Southern Pacific Company, operating the Morgan Line steamers. Figures are given for 1914 and 1919 respectively when the labor was unionized, and for 1923 after the union had been eliminated. These figures show that in 1914 the man power per hour averaged 764 pounds, in 1919 it averaged 547 pounds, and in 1923 it averaged 852 pounds. Furthermore, whereas in 1914 thirty-four claims were made for pilfering totaling \$94.60, in 1919 there were 655 such claims, totaling \$20,164 in value. In 1923 there were only fourteen claims totaling \$34.38 in value. It is stated that the longshoremen employed both under the union and afterwards were to a large extent the same individuals.

Buena Vista Hotel at Miami to Cost \$350,000—Construction to Begin by April 1.

Miami, Fla.—Financial details are being arranged by the Buena Vista Hotel Co. here, of which W. W. Goucher is president, for the erection of a \$350,000 hotel in this city. The company is capitalized at \$500,000, of which it is stated, more than \$250,000 has been subscribed. The hotel will be L-shaped, 154 by 135 feet, and will contain 200 rooms on six floors with 50 rooms on the roof. Construction is expected to begin not later than April 1. Gordon E. Mayer of Miami is the architect.

RAILROADS

BIG PLANS AT LITTLE CREEK, NEAR NORFOLK.

Pennsylvania Railroad is Pushing Preliminary Work to Get Construction Started Soon.

C. S. Krick, vice-president of the eastern region of the Pennsylvania Railroad System, Philadelphia, Pa., has given the MANUFACTURERS RECORD a comprehensive statement concerning the proposed Little Creek extension at Norfolk, Va., all obstacles to which have been removed according to a statement recently made by President T. P. Thompson of the Norfolk Chamber of Commerce who also said that construction is expected to begin shortly.

Vice-President Krick says: "The project is one that we have had in mind for a number of years, active consideration of which was interrupted by the war and the period of reorganization and difficult financing that followed.

"Briefly, and in a general way, the purpose of our Little Creek extension is to enable us to handle as economically and as efficiently as possible business to and from the South via the Norfolk gateway. We have acquired land in the vicinity of the mouth of Little Creek on the south shore along the Chesapeake Bay where it is our purpose to construct a deep water artificial harbor with an artificial channel to the bay, also suitable yard and terminal track facilities for handling cars to and from floats and barges. From this point we will effect entrance into Norfolk largely by trackage rights over railroads already serving that city, with construction of necessary connections, and we will make some improvements to freight house, tracks, etc., at our St. Julian Avenue yard in Norfolk.

"It is our purpose to transfer gradually our freight car ferry movement from its present southern terminal at Port Norfolk to the proposed new terminal at Little Creek, but this will be done step by step, and when the arrangements are finally completed, we anticipate abandoning our Port Norfolk terminal for through freight and handling such traffic through the new terminal at Little Creek." It is also contemplated that our present Norfolk freight station at Brook Avenue will be abandoned and all the less than carload traffic originating at or terminating in Norfolk will be handled at the freight station at St. Julian Avenue, while carload freight forwarded from or terminating in the city will be handled in connection with the Norfolk & Portsmouth Belt Line which will deliver the cars to us through Little Creek instead of Port Norfolk, some portion of it perhaps coming directly to us upon our own new line.

"By this change in our facilities from Port Norfolk to Little Creek the water haul across the bay will be reduced from its present distance of 36 miles between Cape Charles and Port Norfolk to approximately 25 miles, Cape Charles to Little Creek. This will decrease our towing and as a result will increase the effectiveness of our present floating equipment, and in addition it will remove from the crowded and congested Elizabeth River our tows of freight barges and floats.

"As to the exact date on which this work will be commenced I am not in position to say, but we are working actively upon our plans and estimates with the hope that the many details may be worked out and construction may be started as soon as funds are available."

More than ordinary interest attaches to these plans of the Pennsylvania Railroad just now because of expectations that it will lease the Norfolk & Western Railway which runs from Norfolk, Va., to Columbus, Ohio, 677 miles, and that

would give the Pennsylvania a short route for east bound freight from the West via its connection at Columbus to the Atlantic Ocean at Little Creek in addition to its present ocean terminals at Baltimore, Philadelphia and New York.

Railroads in South Make Best Showing.

The net operating income of the Class One railroads having 235,928 miles of line is reported for January by the Bureau of Railway Economics, Washington, D. C., as totaling \$51,281,200 or at an annual rate of 4.54 per cent on their tentative valuation. Roads of this class in the southern district showed an annual rate of earnings of 5.68 per cent, those in the eastern district, 5.04 per cent, and those in the western district 3.59 per cent, the latter low figure pulling down the average. In January of last year the same roads earned at the annual rate of 5.58 per cent, with a net operating income of \$61,128,970. The gross operating revenue of these roads in January of this year were \$468,976,600, or 6.7 per cent less than they were in January of last year. Operating expenses were \$384,984,380, or 23,993,100 less, a decrease of 5.9 per cent. There were 44 railroads of this class which operated at a loss during January, 20 being in the East, 2 in the South and 22 in the West. It is further noted that in the absence of tentative valuations of the carriers by the Interstate Commerce Commission according to the various sub-districts, compilations by the Bureau show that the rate of return in January based on the property investment of the roads was 3.94 per cent. State and Federal taxes were paid by them during the month up to a total of \$26,000,000 or about \$867,000 daily, this being an increase of about 1½ per cent in comparison with January a year ago.

Chesapeake & Ohio Breaks Car-Loading Record.

New high coal loading records were attained by the Chesapeake & Ohio Railway during February, according to a statement by President W. J. Harahan. During the week ended March 1 a new weekly record was established, 18,011 cars being loaded as compared with the week ended September 1, 1923, when 17,742 cars were loaded. During last month there were 68,551 cars loaded, beating all records for any February. On Saturday March 1 there were 30,268 cars moved on the system, beating the record of 30,144 cars on October 4 last, and this new record included 19,078 loaded cars, which itself was a new daily record. The last high record was on August 23 last when 18,203 loaded cars were moved. New high levels in car mileage were also set.

Steady Increase of Freight Traffic.

The car service division of the American Railway Association reports that during the week ended February 23 there were 845,898 cars loaded with revenue freight on the railroads of the United States, and although this showed a decrease as compared with the previous week because the observance of Washington's Birthday intervened, it was 15,711 cars more than were loaded in the corresponding week of last year and about 117,000 more than in the same week of 1922. In an aggregate of 6,979,568 cars loaded since January 1 of this year there is an increase of over 244,000 cars as compared with the same period of last year.

Maryland & Pennsylvania Railroad Statement.

The financial statement of the Maryland & Pennsylvania Railroad for 1923 shows total operating revenues of \$921,140.25; increase as compared with 1922, \$102,806.62; operating expenses, \$500,471.52; increase, \$35,204.91; net operating revenue, \$321,668.73; increase, \$67,601.71; net railway operating income, \$221,304.23; increase, \$41,675.28. Ratio of expenses to revenue, 65.07, a decrease of 3.88 as compared with 1922.

BIG RAILROAD PLANS IN FLORIDA.

East Coast Railway's Extensive Double Track and Equipment Program to Keep Up With Rapid Development.

Concerning the plans to double track the Florida East Coast Railway from Jacksonville to Miami, 36½ miles, and to build a belt line 19 miles long at Miami, besides the purchase of new equipment, which were briefly mentioned in the MANUFACTURERS RECORD of March 6, a dispatch from H. N. Rodenbaugh, general manager of the railway, gives particulars of the proposed improvements and additions as follows:

[Telegram to Manufacturers Record.]

St. Augustine, Fla., March 7.

Regarding improvements of this line recently authorized: The executive committee of this company proposes to double track its line between Jacksonville and Miami and will immediately start work on some part of this project. It will necessarily take several years to complete it, but it is planned to push the work through without interruption.

Work on the belt line around the city of Miami was also authorized to begin immediately. This will serve to keep through freight trains off our main line tracks in the center of the city, thereby decreasing congestion, and as well open up new territory adjacent to Miami for industrial and development purposes.

It has also authorized for purchase this year 20¹/₂ mountain type locomotives, 5 switching locomotives, 1 steel dining car, 20 caboose cars, 200 ventilated box cars, 250 rock cars, and 100 ballast cars.

In making these authorizations the executive committee has recognized the steady and solid growth of the territory tributary to this railway and intends to keep well abreast of transportation requirements resulting from this rapid development.

H. N. RODENBAUGH.

Railroads Would Modify Train-Control Order.

Eighty-nine of the ninety-four railroads of Class One which were directed by the Interstate Commerce Commission on January 14 to install automatic train control systems on their lines by February 1, 1926, have appealed to the Commission for a modification of the order so that they may have ample time to study and compare the respective merits of the different train control systems that have been devised, and it also questioned whether the adoption of automatic train control will produce the safety desired. The appeal was filed last week with the Commission and it stated that in the cases of forty-five of the smaller railroads affected by the order enforcement would place those lines dangerously near bankruptcy, because their principal need now is for capital to make improvements of existing facilities. The matter was taken under consideration.

Railroad Projected for West Coast of Florida.

Plans have been made and a survey is to begin soon for the construction of a railroad from St. Petersburg to Tallahassee, Fla., about 235 miles, according to a report from St. Petersburg quoting L. A. Whitney of that place as saying that the proposition has been financed and that an office will soon be opened there to take charge of the enterprise. Besides Mr. Whitney there are mentioned as being interested Dr. M. D. Kelly, of Milwaukee, Wis., president of the Franklin Company that is interested in transportation and development matters on the west coast of Florida; Grosvenor Dawe, of Tallahassee, secretary of the same company, and W. L. Lewis, of Orlando, Fla. The general idea of the promoters is to stimulate the development of the west coast of Florida as earnestly as the east coast has been built up and improved.

New Equipment.

The Pennsylvania Railroad has awarded contracts for 11,000 all steel freight car bodies for which it already has a sufficient number of trucks, as follows: Pressed Steel Car Co., 3000 box cars; American Car & Foundry Co. and Pullman Company, each 2000 box cars; Bethlehem Steel Corporation, 1000 box cars; Standard Steel Car Co., 2000 automobile cars; Liberty Car & Equipment Co. and General American Car Co., each 500 automobile cars. According to a report from Philadelphia these orders make up the total of the Pennsylvania's equipment contracts thus far this year to \$25,000,000, this aggregate including 50 locomotives which the railroad company is building at the Altoona shops. Additional orders are expected.

Southern Railway is reported in the market for 25 locomotives, 25 passenger cars, 12 baggage and express cars, 6 mail and baggage cars, 2 mail cars and 5 steel dining cars, all the cars to be of all steel construction.

Louisville & Nashville Railroad is reported about to purchase 30 locomotives, including 18 Mikado type, 6 Pacific type, and 6 eight wheeled switchers.

Nashville, Chattanooga & St. Louis Railway has ordered 50 steel hopper ballast cars from the Tennessee Coal & Iron & Railroad Co. This road is also reported about to buy eight passenger train cars. Santa Fe System has ordered 500 flat cars of 40 tons capacity from the American Car & Foundry Co.

Central of Georgia to Build 48 Miles of New Line.

An application filed by the Central of Georgia Railway with the Interstate Commerce Commission for authority to build 48 miles of line between Sterett and Opelika, Ala., is for new construction that will have to be done in connection with the improvement of the company's line from Birmingham, Ala., to Columbus, Ga., by reducing grades and curves. It is 160 miles from one city to the other and the reconstruction work will cover about 100 miles of this distance, about one-half of it being actually new line construction as the old route will be deviated from for an aggregate of 48 miles. Elsewhere the old route will be improved up to the standard of the new construction. As heretofore stated the distance will be reduced four miles by the new work and the total cost of the improvement will be from \$5,000,000 to \$6,000,000.

Stockholders Approve Sale of Railroad.

Unanimous approval of the proposed sale of the International-Great Northern Railroad to the New Orleans, Texas & Mexico Railway Co., is reported from New York as having been given by the holders of voting trust certificates of the first named road, more than 64,000 shares being voted at the meeting that considered the proposition. There are altogether 74,991 shares of the common stock. The price to be paid is \$31 per share under the agreement, the purchaser also to pay at least 4 per cent on the adjustment bonds. Application for approval of the deal is pending before the Interstate Commerce Commission.

Now With Missouri Pacific System.

John M. Egan, recently elected vice-president of the Missouri Pacific Railway, is now vice-president in charge of operation, as well as general manager, according to a late announcement by President L. W. Baldwin. Mr. Egan has been with the American Railway Association at Chicago as manager of the refrigerator car section of that organization, but prior to that he was general superintendent of the southern lines of the Illinois Central Railroad at New Orleans. He began his railroad career with that system.

GOOD ROADS AND STREETS

RAPID HIGHWAY BUILDING IN FLORIDA.

A Town Where Several Important Highways Centre.

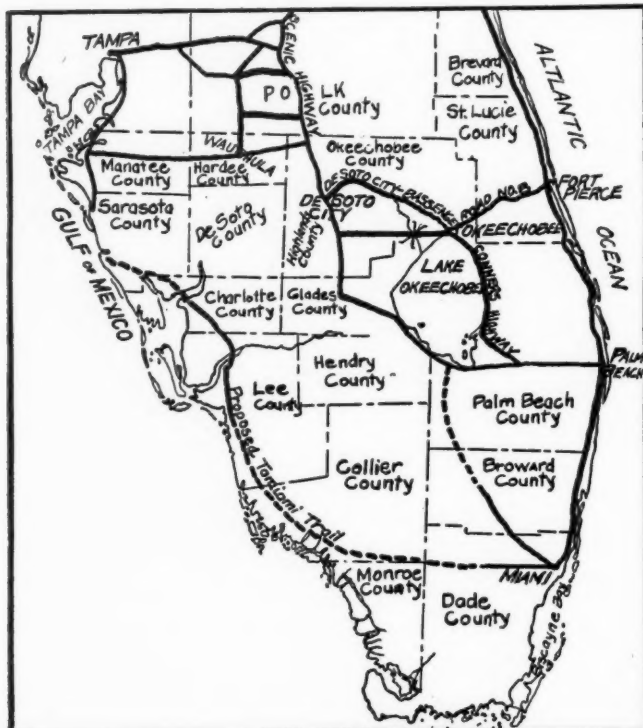
DeSoto City, Fla., February 21.

Editor *Manufacturers Record*:

The accompanying outline road map shows how southern Florida is being developed by the building of good highways through state roads and private enterprise. What is known as Conners Highway, which is being built by W. J. Conners of Buffalo, who is heavily interested in large properties in the Everglades section which he is now developing, will, it is understood cost several million dollars. This is purely a private undertaking. As shown on the map it skirts Lake Okeechobee, passing through the town of Okeechobee, and meets a state highway at DeSoto City.

When these various state and individual highways have been completed it will be possible to motor across southern Florida and in almost every direction, opening up to settlement one of the most richly endowed regions in the world for agricultural development.

Years ago I came to south Florida from Georgia to recuperate after a breakdown from overwork, and landed on what is known as the ridge section, or scenic highlands of Florida. Under this delightful climate and in the beautiful



MAP OF SOUTH FLORIDA HIGHWAYS

The Conners Highway now under construction skirts Lake Okeechobee and meets the state highway at DeSoto City. The X above the Lake marks the site of the proposed Harding Memorial Bridge.

surroundings and soft water, I soon regained my health and began the study of the highland region from Haines City at the north end, down to Hicoria at the south end, a distance of 75 miles, and selected DeSoto City as an inviting field for investment. Here I found a country duplicating in topography and natural resources the developed section at Winter Haven, and the partly developed section at Lake Wales, and fifty miles further south than Lake Wales, lessening the danger from frost, and with a great area of ridge grove lands as well as trucking lands.

This region is now becoming a local highway centre. The

State Road Department has taken hold, and the Atlantic and Gulf Cross-the-State Scenic Highway, known as State Road No. 8, connecting the east and the west coast, is now nearing completion, and by June it will be possible to breakfast in Miami and motor to St. Petersburg for supper over the best paved highway for such a length in Florida.

From DeSoto there will be three alternate routes to the east coast—State Highway No. 8 at Fort Pierce, DeSoto City—Bassenger Highway, and the Conners Highway at West Palm Beach. In going north from DeSoto City there will be a choice of five routes to the west coast, all paved, namely: via Avon Park and Wauchula; via Frostproof and Fort Meade; via Lake Wales and Bartow; via Dundee and Winterhaven; and via Haines City and Lakeland. One may also go north via Orlando or via Leesburg.

DeSoto City is on the neck of the funnel of these two highways, for all of the traffic in either direction will be concentrated on the one main trunk Scenic Highway in passing through DeSoto City. We are the halfway point between Palm Beach and St. Petersburg. This highway will carry the heaviest auto traffic of any in the entire state. It passes through the town site of DeSoto, down the main business street, through the parks, swinging for two miles on the boulevard around the bluff banks of beautiful Red Beach Lake where our most attractive residence sections are laid out. Counting the highway and the outlay by the little town of DeSoto, the town has over \$100,000 worth of streets, with no bonded or other indebtedness. It has just been incorporated, and the commissioners are now contemplating putting in waterworks and electric lights.

The situation here is an extremely inviting one and offers exceptional opportunities to men of means who can provide capital for the building of homes, and making improvements which will be so keenly needed through the early use of these highways centering at DeSoto. I believe this town is one of the best located in the highland section of Florida, and that its growth will be exceptionally rapid. Many people have an impression that Florida is all flat. On the contrary, there is a superb ridge country averaging several hundred feet above the sea level which is almost one vast orange and grapefruit region.

DAVID C. BARROW, President,
DeSoto City Groves Company.

Bids Invited for Macadam Pike as Approaches to Dix River Bridge.

Burgin, Ky.—Sealed bids will be received by the Kentucky Hydro-Electric Co., Louisville, Ky., until March 17, for the construction of 4280 feet of macadam pike in Garrard and Mercer counties, for approaches to the new Kennedy bridge over Dix River, about four and a half miles from Burgin. Plans and specifications, forms of proposals and information may be obtained from the office of the Kentucky Hydro-Electric Co. at Louisville, or from the office of the Kentucky Utilities Co., Danville, Ky.

Will Build Thirteen Miles in Lee County.

Bishopville, S. C.—Bids will be received until March 18 by the Board of County Commissioners at its office here for the construction of more than 13 miles of road in Lee County, including 2.618 miles on state route No. 34, beginning at the city limits of Bishopville and extending toward Darlington, and 10.527 miles of state route No. 42, beginning at the city limits of Bishopville and extending toward Sumter toward the Lee-Sumter county line. On the latter road there will be a reinforced concrete bridge of eight 22-foot spans.

Missouri Wants Bids on 72 Miles.

Jefferson City, Mo.—Bids will be received until March 21 by the State Highway Commission at its office here, for the construction of more than 72 miles of roads, together with an overhead crossing. The following projects are contemplated: For 4.992 miles of gravel in Miller County; 6.964 miles in Maries; 3.8 miles earth grade in Montgomery; .949 miles of gravel in Jefferson; .872 miles in Ste. Genevieve; 6.987 miles of earth grade in McDonald, and 1.970 miles of concrete in Greene.

There will be 4.344 miles of earth grade in Pulaski County and 2.205 miles of gravel; 4.579 miles of earth grade in Worth; 4.308 miles of penetration macadam in Gentry; 2.062 miles of gravel in Sullivan; 2.670 miles in Lincoln; 3.161 miles of earth grade in Benton; .720 miles in Saline; 6.115 miles in Wright; 1.719 miles of gravel in Stoddard; 3.771 miles in Scott; 3.230 miles of concrete and gravel in Stoddard, and 9.890 miles of concrete in Nodaway County.

Bids will also be received for an overhead crossing in Howard County, 483 feet in length.

Plans and specifications may be seen at the office of the State Highway Commission, or at the office of the division engineer in whose division the proposed work is located. B. H. Piepmeyer is the chief engineer of the State Highway Department.

Fifth Essay Contest on Good Roads.

The Highway Education Board of Washington has announced a contest eligible to any student of high school grade for the best essay on the subject "The Relation of Improved Highways to Home Life." Essays must be presented to school principals not later than April 21, and they must not be over seven hundred words in length. The reward for the best essay is a four year university scholarship. It is the fifth award of this character under the terms of the scholarship presented annually by H. S. Firestone of Akron, Ohio.

Starr County Lets Contracts for \$242,000.

Rio Grande City, Tex.—Road contracts aggregating \$242,000 have been awarded by the Starr County Commissioners as follows: For surfacing and grading from Hidalgo County line to Rio Grande City, W. L. Pierson Construction Co. of Houston; building structures on the same road, W. T. Montgomery, San Antonio; grading and surfacing from Rio Grande City to Roma, W. T. Montgomery, and for building structures on the same road, Smith, Sarky & Brown of Houston.

Five Miles of Road in Calhoun County.

St. Matthews, S. C.—Bids will be received until March 19 by the Calhoun County Board of Commissioners for the construction of 5.06 miles of road on state route No. 2. Plans and specifications are on file at the office of W. C. Cathey, division engineer, Orangeburg, S. C., and at the office of the state highway engineer at Columbia.

Huntington Invites Bids for Paving.

Huntington, W. Va.—Sealed bids will be received until March 21 by the Board of City Commissioners for grading, curbing and paving a number of city streets and roads. Plans, specifications and details are on file at the office of A. B. Maupin, city engineer. L. D. Newman is the commissioner of streets, sewers, etc.

Dade County Commissioners, Miami, Fla., will receive bids until March 17 for the construction of a reinforced concrete bridge over the south fork of the Miami River, on the line of the Grapeland boulevard. Plans and specifications are on file in the office of Hobart Crabtree, county engineer, Miami.

Petersburg Awards Contract for \$600,000 Viaduct.

Petersburg, Va.—Contract for the proposed viaduct from this city to Colonial Heights, which will cost more than \$600,000, has been awarded to W. W. Boxley & Co. of Roanoke. The structure will be of reinforced concrete, 2250 feet in length, and will be 30 feet high at the present Norfolk & Western depot. It will begin at Second street and will extend to a point near the beginning of the concrete roadway to Richmond. There will be an inclined branch from the main viaduct to Pocahontas, a distance of 612 feet.

The viaduct will eliminate present grade crossings at the Norfolk & Western depot, and will accommodate interurban cars of the Virginia Railway & Power Co. to Richmond, the company to abandon wooden bridges which it now uses. A stairway will lead from the viaduct to the platform of the depot.

The cost of construction has been apportioned as follows: City of Petersburg, \$219,000; Norfolk & Western Railway Co., \$186,000; Virginia Railway & Power Co., \$75,000; Atlantic Coast Line Railroad, \$48,000; State Highway Commission, \$75,000. In addition, the State Highway Commission will construct a fill at the north end of the viaduct and will lay pavement from the present paved highway to Richmond. It is estimated that the total cost to the city will be \$260,000.

Lexington County Wants Bids on 50 Miles.

Lexington, S. C.—Bids will be received until March 21 by the board of county commissioners of Lexington County at its office here, for the construction of about 50 miles of road, the work to include 19.593 miles of state route No. 1, beginning at the Orangeburg-Lexington county line and extending toward Columbia to a point on state route No. 2, near Dixiana, and 10.441 miles of state route No. 391, beginning at the Aiken-Lexington county line and ending at the Saluda-Lexington county line.

In addition, there will be 7.176 miles of project No. 234 on state route No. 1, extending from the Orangeburg-Lexington county line to a point near Swansea, and 12.417 miles of the same project beginning at the end of the first section and ending at a point on state route No. 2.

A reinforced concrete bridge to be constructed on project No. 234, will consist of four 22-foot spans. Plans, specifications and proposal forms for both the road and bridge work, are on file at the office of the state highway engineer at Columbia.

Three West Virginia Districts Vote Total of \$1,257,200 Road Bonds.

Fairmont, W. Va.—Three road districts of Marion County have voted bond issues aggregating \$1,257,200 for the construction of about 55 miles of hard-surfaced road ranging from nine to fourteen feet in width. Mannington district voted \$600,000 and expects to build about 30 miles, Paw Paw district voted \$324,000 and will build 13.73 miles and Lincoln district voted \$333,200 to build 15.35 miles.

Bids for Louisiana Highway.

Baton Rouge, La.—Sealed proposals will be received at the office of the Louisiana Highway Commission in this city until April 3 for the construction of eight miles of road in Vernon Parish on the Leesville-Alexandria highway from Slagle. Bids will also be received at the same time for furnishing gravel for surfacing the road. Information may be obtained at the office of the commission, where plans and specifications are on file. J. M. Fourmy is the state highway engineer.

The State Highway Board, Jefferson City, Mo., will open bids March 21 for an earth grade road in Nodaway County, extending south from Maryville for a distance of five miles.

TEXTILE

United States Finishing Company Begins Operations at Cedartown—Plans Further Expansion.

The United States Finishing Co. of New York, writing from Cedartown, Ga., advises the MANUFACTURERS RECORD that it has completed its preliminary construction program at its new plant at Cedartown and has started operations.

The company contemplates an expansion in the near future, although it states that its plans are indefinite.

Robert & Co. of Atlanta, in connection with the company's engineers, handled construction details, while the Griffin-Hodges Construction Co. of Atlanta, had charge of building construction. Electrical work was done by M. S. Cone of Rome, Ga., and piping by the Atlanta office of the Grinnell Co. of Providence, R. I. Mechanical work was handled by the company's own force.

It is stated that approximately 100 operatives will be employed at the Cedartown mill which will finish cotton piece goods at the rate of about 1,500,000 yards per month.

Completing Mill Extension and New Weave Shed.

Mooreville, N. C.—Work has practically been completed on the new weave shed and mill extension of the Cascade Mills, Inc., here and it is expected that operations will begin by the last of March. The weave shed is 161 by 134 feet, and the mill extension 103 by 50 feet, both buildings of brick. Engineering work is being handled by the Charlotte office of Lockwood, Greene & Co. of Boston and Atlanta, and the following contracts have been awarded:

Construction, Grier-Lowrance Construction Co., Statesville, N. C.; sewer, Boyd, Higgins & Goforth; heating, Parks-Cramer Co., and power and light wiring, Electrical Constructors Co., all Charlotte; humidifiers, American Moistening Co., Boston, Mass., and fire protection, Rockwood Sprinkler Co., Worcester, Mass.

The Cascade Mills, Inc., plan to install 15,000 spindles and 400 looms, all machinery to be electrically driven.

Purchases Spinning Equipment for El Paso Mill.

El Paso, Tex.—A contract has been awarded by the El Paso Cotton Mill Co., A. P. Coles, president, to the Saco-Lowell Shops, Boston, Mass., for spinning equipment to be installed in the new mill to be erected here. As previously reported by the MANUFACTURERS RECORD, the El Paso Cotton Mill Co. has secured a site of fifteen acres in the Cotton Addition of South El Paso for its proposed mill, which will operate about 5000 spindles and 200 looms.

M. H. Merrill & Co. of Boston are the engineers, with a branch office in Dallas. Contract for the mill building will soon be awarded.

To Equip With Humidifying Apparatus.

China Grove, N. C.—Contract has been awarded by the China Grove Cotton Mills Co. to the Parks-Cramer Co., Charlotte, to equip its combing and carding departments in the basement of its mill building here with humidifying apparatus. The company produces combed yarns, 40s to 80s, and operates 22,000 ring spindles.

Lanett Cotton Mills Adding Cloth Room.

The West Point Manufacturing Co. of West Point, Ga., advises the MANUFACTURERS RECORD that it is building a new cloth room at its Lanett (Ala.) mills, with dimensions of 75 by 270 feet. J. E. Sirrine & Co. of Greenville, S. C., are the engineers.

Talk of Increased Cotton Acreage.

The possibility of certain shifts in agricultural production in different sections of the country this year is discussed by the Agricultural Department.

Though too early actually to measure changes, the outlook this spring appears to include a sentiment somewhat in favor of corn over hogs, of dairy products over cash crops in parts of the West, of sheep over cattle, and of poultry over fruit. The cotton belt alone appears fixed in its purpose to stick to its major line and to plant more cotton, states the Department.

Many wise farmers, however, hesitate to follow the crowd in these continual shiftings, and if there is a lesson in the occasional farm able to show a profit, even from the past two years, it is that efficiency and rigid economy now mean everything and that continual change is a will-o'-the-wisp.

One other lesson, states the Department, is that the surest way to make wages these days is to put some labor on vegetables, fruit, wood, meat, poultry and dairy products for use at home.

In the South there is talk of increased cotton acreage. Bad roads have hampered the market movement in the corn belt, where the seed corn situation is said to be the worst in years. The wheat belt is still keenly interested in legislative relief measures. Most of the range country is coming through the winter in good shape. Livestock generally is in good condition.

The trend of prices received by farmers during January was slightly upward in the case of crops and animal products except butter and eggs. The exchange value of agricultural products for commodities that farmers buy was 74 expressed as an index number, compared with 73 the preceding month. The corresponding index figure for the year 1923 was 72 compared with 69 in 1922, and with 67 in 1921, thus indicating some improvement in the position of farm products in the past three years.

Balfour Mills Award Machinery Contracts.

Balfour, N. C.—Machinery contracts have been awarded as follows by the Balfour Mills for the equipment of its cotton mill under construction here: Motors, transformers and switchboards, General Electric Co., Schenectady, N. Y.; chain drives, Link Belt Co., Chicago, and humidifying equipment, Bahnson Co., Winston-Salem, N. C.

Foundation for the main mill has been constructed and about forty dwellings have been completed.

The main building will be 337 by 212 feet, one story, warehouse 100 by 100 feet, and a power house. The buildings will be of standard brick and timber construction and will cost about \$200,000. Fiske-Carter Construction Co. of Spartanburg, S. C., is the contractor. The plant will house 10,000 spindles and 250 looms at first and will cost about \$1,000,000. J. E. Sirrine & Co. of Greenville, S. C. are the engineers.

Contract for Mill Equipment.

Fayetteville, N. C.—The Victory Manufacturing Co. has awarded contract to the Parks-Cramer Co., Charlotte, for an addition to the humidifying system in its cotton mill here. This company operates 14,336 ring spindles, 3600 twister spindles, 360 narrow and 130 wide looms, and dyeing, bleaching and finishing equipment for the production of print cloths and specialties.

Building Two-Story Addition to Knitting Mill.

The MANUFACTURERS RECORD is advised by the Alden Mills of New Orleans that they are erecting a two-story addition to their knitting mill at Meridian, Miss., which will afford about 13,000 square feet more of factory space. Construction work is being done by Wetmore & Priester of Meridian.

LUMBER AND BUILDING MATERIALS

Continued Recession in Lumber Movement.

Washington, March 6—As reflected by comparable reports from 386 of the larger commercial lumber mills of the country received by the National Lumber Manufacturers Association, there has been further recession in the lumber movement both as compared with the preceding week and with the same period of 1923. While there was a slight increase in shipments last week, there were much larger decreases in production and new orders. Production increased slightly over a year ago but shipments and orders fell off. On the other hand, the unfilled order file of 261 leading Southern Pine and West Coast mills totalled 670,317,645 feet as compared with 731,577,842 feet for 265 mills in the preceding week. The unfilled orders of 132 Southern Pine mills decreased from 273,712,290 to 261,954,672 feet while 129 West Coast mills gave their unfilled order file at the end of last week as 408,362,973 as against the 457,865,552 of 133 mills a week earlier.

Altogether the 386 mills had shipments of 102 per cent and orders of 82 per cent of actual production. For the Southern Pine mills the percentages were respectively 92 and 76 and for the West Coast mills 106 and 80.

Of the comparably reporting mills 363 (having a normal production for the week of 220,517,189 feet) reported their production and shipments as equal to normal production and their orders as 80 per cent thereof. A year ago, for the corresponding group of mills, shipments were 109 per cent and orders 99 per cent of normal production.

The following table compares the national lumber movement (reporting mills of seven regional associations) for the three weeks indicated:

	Past Week	Corresponding Week 1923	Preceding Week 1924 (Revised)
Mills	386	368	384
Production	232,609,270	226,066,933	241,718,157
Shipments	236,535,294	247,993,547	234,753,281
Orders	191,508,372	223,655,078	213,811,950

The following figures compare the lumber movement for the first nine weeks of 1924 with the same period of 1923:

	Production	Shipments	Orders
1924	1,955,100,481	2,033,225,974	2,041,429,639
1923	1,813,816,488	2,186,968,274	2,352,970,770
1924 Increase	141,283,993	.....	.....
1924 Decrease .....	.....	153,742,300	311,541,131

The California White and Sugar Pine Association mills make weekly reports but owing to the incomparability of their weekly orders (new business) none of the foregoing includes them. For the past week 16 of those mills with a production of 6,337,000 feet, representing 39 per cent of the total California pine production, shipped 12,116,000 feet and reported their orders as 20,947,000.

The West Coast Lumbermen's Association wires from Seattle that the production of 129 mills for the week ending March 1 was 16 per cent above normal, while new business was 20 per cent below production, and shipments 33 per cent above new business.

LUMBER MOVEMENT FOR NINE WEEKS, AND FOR WEEK ENDING MARCH 1.

	Production		Shipments		Orders	
	1924	1923	1924	1923	1924	1923
Southern Pine Association:						
Total	644,653,221	682,848,421	669,746,163	770,277,054	650,486,508	866,197,290
Week (132 mills)	73,138,069	75,020,784	67,574,697	79,163,040	53,817,079	73,645,616
West Coast Lumberman's Ass'n:						
Total	896,268,684	770,975,712	884,096,918	930,303,849	864,180,882	978,193,333
Week (129 mills)	102,023,027	109,233,893	108,478,128	116,089,292	81,618,093	101,550,028
Western Pine Mfrs. Ass'n:						
Total	158,915,000	112,115,000	224,998,000	215,278,000	245,400,000	217,325,000
Week (37 mills)	24,807,000	16,207,000	27,279,000	24,188,000	24,425,000	23,525,000
Calif. Redwood Ass'n:						
Total	74,215,000	64,940,000	65,864,000	79,526,000	69,712,000	103,732,000
Week (15 mills)	9,479,000	8,035,000	7,411,000	10,589,000	8,941,000	10,713,000
North Carolina Pine Ass'n:						
Total	63,318,776	68,970,455	66,695,093	75,581,671	72,941,249	76,855,147
Week (50 mills)	10,305,474	5,577,156	10,417,269	5,204,115	5,552,200	3,765,434
Northern Hemlock & Hardwood:						
(Softwood) Total	16,014,000	19,926,000	19,278,000	19,125,000	18,100,000	20,782,000
Week (15 mills)	544,000	1,569,000	1,824,000	1,949,000	827,000	1,498,000
Northern Pine Mfrs. Ass'n:						
Total	58,454,800	64,674,900	73,068,800	71,898,700	84,884,000	65,382,000
Week (8 mills)	6,779,700	7,207,100	9,721,200	8,803,100	11,181,000	6,878,000
General Total for 9 weeks:						
(Softwood)	1,911,839,481	1,784,450,488	2,003,746,974	2,161,990,274	2,005,704,639	2,328,466,770
Northern Hemlock & Hardwood:						
(Hardwood) (9 weeks)	43,261,000	29,386,000	29,479,000	24,978,000	35,725,000	24,504,000
Calif. White & Sugar Pine Mfrs.:						
(9 weeks)	58,069,000	.....	126,033,000	.....	.....	.....
General Total for Week	232,609,270	226,066,933	236,535,294	247,993,547	191,508,372	223,655,078
Calif. White & Sugar Pine reports not included in totals, because "orders" not reported.						

Decline in North Carolina Pine Activity.

The North Carolina Pine Association reports as follows on 47 mills for the week ending March 1st:

	Total Feet
Orders	3,634,200
Shipments	9,042,968
Production	8,218,874
Normal Production	12,642,000

The orders were 57 per cent below shipments, 56 per cent below actual production and 71 per cent below normal production. Shipments were 10 per cent above actual production and 28 per cent below normal production. Actual production was 35 per cent below normal. The week shows a decrease in orders of 2,917,000 feet or 44 per cent.

Report on Southern Pine.

The Southern Pine Association for the week ended February 29 reports as follows on 132 mills:

	Cars	Feet
Orders on hand beginning of week	12,999	273,712,290
Orders received during week	2,649	55,817,079
Total	15,639	329,529,369
Shipments during week	3,207	67,574,697
Orders on hand end of week	12,432	261,954,672

Production for the week was 73,138,069 feet. Shipments were 5,563,372 feet below production or 7.61 per cent. Orders were 17,320,990 feet or 23.68 per cent below production.

Orders were 11,757,618 feet or 17.40 per cent below shipments. The week was 10,246,120 feet below normal production or 12.29 per cent. The decrease in orders on hand amounted to 11,757,618 feet or 4.30 per cent.

Brick Manufacturers Anticipate Continuation of Building in Volume Through 1924.

Continuation of the high volume of building construction throughout 1924 was indicated by the optimism expressed in the annual meeting of the Common Brick Manufacturers Association of America held at Los Angeles, February 11 to 16, according to the monthly digest of conditions in the industry just issued, which says:

"In those sections of the country where there were good building conditions in 1923 there is every indication that the present year's volume will be equal if not greater. In some of the agricultural sections where construction has been adversely affected by local conditions, there also is little to indicate a change.

"Encouraged by the results of their co-operative effort through this Association for the past five years, the brick manufacturers attending the Los Angeles meeting were unanimous in declaring in favor of an extension of the activities. This extension will take the form of local advertising and engineering service. Already a number of groups have been formed to finance local promotion work, and the next step in the development of the common brick industry in America will be the carrying out of the group plan idea in every section of the country. California, Washington and Oregon, Colorado, the city of Chicago, Detroit, Cleveland, Eastern Pennsylvania and New Jersey, Connecticut, and Massachusetts and already organized for the purpose of doing local advertising in newspapers and of rendering architectural and engineering service to builders. All of these groups are affiliated with the Common Brick Manufacturers' Association of America, which is, in a sense, the power house of the industry with the local groups acting as transformer stations. Information relative to brick and ammunition for the promotion of brick are created through the activities of the national association, and these in turn communicated to the local groups for distribution and application to the public.

"Common brick showed a loss in consumption between the year 1909 and 1919 of 70 per cent. In the five years since 1919 national advertising has put the industry back to a point within 20 per cent of its highest consumption. Officials of the national association are confident that with one more year of good business the industry will have entirely redeemed its losses and that the consumption of common brick in the country will be as high as it ever has been. Continued gains from that point onward are confidently expected."

Riviera Country Club Incorporates—Extensive Developments Planned.

St. Petersburg, Fla.—With an authorized capital stock of \$1,500,000 the Riviera Country Club has been incorporated with an authorized capital stock of \$1,500,000 by E. M. Elliott and others, who plan a big development on Weedon's Island. It is announced that the club will own from 300 to 500 acres of land in the Riviera development of the Boulevard-and-Bay Land & Development Co. on which it will build an 18-hole golf course, 9-hole golf course, country club house, Roman plunge with stadium surrounding it to contain dressing rooms and shower facilities, combination casino and other facilities.

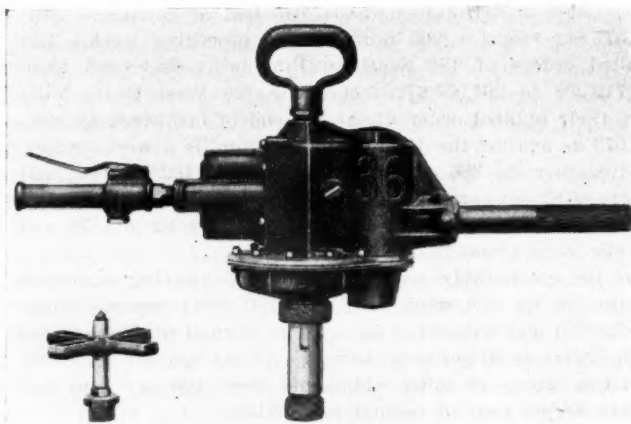
The structures will be located on Ucita Lake and about the center of the lake will be erected a club house for men.

John J. Watson of Toledo, Ohio, is the landscape architect and Donald Ross of New York, will design and construct the two golf courses.

MECHANICAL

Pneumatic Drill for Reaming.

In modern shop practice the magnitude of operations, particularly where a piece work rate prevails, demands a portable air drill for reaming service and ability to handle a constantly fluctuating load, to which requirements the high speed motor commonly used in portable air drills is not so well adapted, it is claimed, as is the "Red Giant No. 36," illustrated herewith, and which is manufactured by the Chicago Pneumatic Tool Company. Reaming work varies from single plates to



HOW THE NEW DRILL LOOKS.

a multiplicity of plates and gussets with forgings, gray iron or steel castings interspersed here and there, and the quantity of metal to be removed produces a constantly changing power factor, all of which, it is stated, this new drill handles in the most satisfactory manner.

Of unique design the drill possesses all the advantages of stability, reliability and adaptability, for reaming and drilling work and its ease of operation and low maintenance cost further recommend it. These claims rest upon the results of extensive experience with its employment in many plants where large use is made of pneumatic equipment and where it attracted general attention for its numerous valuable qualities; it was a favorite among the workmen as well as with superintendents and foremen.

The weight of the drill is 35 pounds and as it is a very finely balanced piston air drill it is extremely easy to handle and to control. The spindle is of the extension type with tang slot for the convenient ejection of either reaming tool or drill. Its power is said to exceed that of any other drill of like weight. Among the other features of the tool are pistons of double acting type, each having two packing rings; the cylinders have a stuffing box which prevents leakage of air into the crank case; eccentrics, which are forged integral with the crank shaft are of liberal size, accurately balanced; valves are of the balance piston type and, it is stated, remain tight indefinitely; the crank shaft is mounted on ball bearings; lubrication is by the splash method. Throughout the tool is made so as to give the most efficient service, accompanied by durability and strength indefinitely.

349,141 Cars and Trucks Manufactured in February.

The mild weather which has prevailed in most parts of the country during the winter has served as a great stimulus to the automobile trade, resulting in a production of 349,141 cars and trucks in February, as reported to the National Automobile Chamber of Commerce. The figures set a new high mark for this time of year, and are 26 per cent in excess of the total for February 1922.

Construction Department

EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained. Further facts about any incomplete or incorrect item reported in these columns are always appreciated.

DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers, and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$20.00 a year.

Bridges, Culverts and Viaducts

Ala., Castleberry—City let contract to R. T. Baggett, to build bridge across Panther Creek, on Belleville-Castleberry road. Address S. P. Dunn, Probate Judge.

Fla., Miami—Venetian Islands Associated Companies, 105 N. E. 2nd Ave., plan expending \$600,000 to \$750,000 for concrete viaducts and electric draw-bridges across Biscayne Bay connecting Miami with Miami Beach; crossing 4 of Venetian Islands and Belle Island; expect to start work in two months.

Fla., New Smyrna—Volusia County plans building second bridge across Indian River, north to New Smyrna Beach. Address County Comms.

Florida—State Road Dept., Tallahassee, will receive bids until March 29 to build 11 bridges and 2 culverts as follows: Project No. 564-B, Road No. 5, Charlotte County, south of Punta Gorda, 11 timber bridges; 32.5 M.F.B.M. treated structural timber, and 1.3 M.F.B.M. untreated structural timber; 33,000 lin. ft. treated piling; No. 37-D, Road No. 2, Alachua County, Paynes Prairie, two 24-ft. concrete deck girders bridge, and two culverts; 540 cu. yds. concrete; 40,000 lbs. steel reinforcement; plans, etc., on file; J. L. Cressap, State Highway Engr.

Florida—State Road Dept., Tallahassee, Fla., received low bids, totaling \$60,000 for 3 bridges as follows: Concrete bridge at Vero, Higgins Bridge Construction Co.; North Relief Canal Bridge, 3 mi. north of Vero, same company; Horse Creek, in Brevard County, between Cocoa and Eau Gallie, Luten Bridge Co., York, Pa.

Fla., Tampa—Details under Road and Street Construction.

Georgia—State Highway Dept., Atlanta, will improve 4 bridges and approaches. Details under Road and Street Construction.

Ga., Athens—Clarke County will receive bids until April 1 to build reinforced concrete bridge, deck girder type, with cantilever 5-ft. sidewalks, 150-ft. long; 24-ft. roadway; or alternate, reinforced concrete arch type; plans, etc., from Tate Wright, Clk.

Ga., Fort Gaines—State Highway Dept., Atlanta, Ga., contemplates 523-ft. bridge exclusive of approaches, to connect west bank of Chattahoochee River in Alabama with east branch in Georgia; steel and concrete with steel arch with fixed span; Major James J. Loving, Engr.

Md., Baltimore—Board of Awards will receive bids until March 19 to repair and alter steel trusses of Wilkens Ave. Bridge over P. B. and W. R. R.; plans, etc., from Bernard L. Crozier, Highways Engr.; Mayor Howard W. Jackson, Pres. Board.

Missouri—State Highway Dept., Jefferson City will receive bids until March 21 for 9 bridges as follows: State Project Route 24,

Sec. 31-Benton County, on road from Cole Camp to Clinton, 60-ft. steel truss span, 2-reinforced concrete abutments; 20-ft. roadway; Route 16, Sec. 38, over stream on road from Mansfield to Springfield, 20-ft. reinforced concrete slab span, reinforced concrete abutments, 20-ft. roadway; Route 25, Sec. 4A-St. Genevieve County, 2 on road from Bloomsdale north; over Isle Du Bois Creek, three 35-ft. reinforced concrete deck girder spans; 2 concrete piers; 2 reinforced concrete abutments; 20-ft. roadway; over Joe Branch, three 35-ft. reinforced concrete deck girder spans; 2 concrete piers; 2 reinforced concrete abutments; 20-ft. roadway; Route 55, Sec. 5-Scott County, on road from Belton to Charleston, over Drainage Ditch, 10-ft. reinforced concrete slab span; 2 reinforced concrete abutments; 20-ft. roadway;

Route 24, Sec. 31-Benton County, on road from Cole Camp to Clinton, 35-ft. reinforced concrete deck girder span; 2 reinforced concrete abutments; 20-ft. roadway; Route 41, Sec. 5, Saline County, on road from Marshall north, over Salt Fork Creek; 90-ft. steel truss span, concrete floor, 20-ft. roadway; four 25-ft. 1-Beam spans, wood floor; 2 reinforced concrete piers; 4 creosoted wood pile bents; Route 1, Sec. 112-McDonald County, on road from Anderson south, 12-ft. reinforced concrete slab span, 2 reinforced concrete abutments; 20-ft. roadway; Route 3, Sec. 95-Greene County, on road from Springfield north and south, over Sequoia Creek, 35-ft. reinforced concrete deck girder span, 2 reinforced concrete abutments; 20-ft. roadway; B. H. Piepmeyer, Ch.-Engr.

Mo., Fayette—State Highway Dept., Jefferson City, will receive bids until March 21 to build 483-ft. overhead crossing in Howard County, Route 235-D; B. H. Piepmeyer, State Highway Engr.

Mo., Mansfield—State Highway Dept., Jefferson City, plans building 20-ft. reinforced concrete slab span, over stream on road from Mansfield east; 20-ft. roadway; 2 reinforced concrete abutments; Wright County, State Project Route 16, Sec. 39; B. H. Piepmeyer, Ch. Engr.

N. C., Charlotte—Board of Comms. will receive bids until March 18 for 2 reinforced concrete bridges; plans, etc., from Joseph Firth, City Engr.

S. C., Bishopville—Details under Road and Street Construction.

N. C., Wadesboro—State Highway Comm., Raleigh, N. C., will receive bids until March 25 to build Pee Dee River Bridge between Wadesboro, Anson County, and Rockingham, Richmond County; thirteen 15-ft. reinforced concrete deck girder approach spans on Wadesboro side, three 200-ft. reinforced concrete open spandrel ribbed arch spans over river, and seven 50-ft. deck girder approach spans on Rockingham side; 20-ft. roadway; plans, etc., on file, and from Geo. F. Syme, Senior Highway Engr.

S. C., Lexington—Details under Road and Street Construction.

S. C., Spartanburg — Spartanburg County contemplates building bridge across Lawsons' Fork, east of city limits, on road toward Charlotte. Address County Comms.

Tex., Houston—Harris County let contract to J. M. Davis, at \$21,560, to build 10 culverts on La Porte road; H. L. Washburn, County Judge.

Tex., Pecos—S. S. Posey, Res. Engr., Pecos, Tex., is preparing plans for 125-ft. bridge across Pecos River, between Reeves and Ward County; through Warren truss, over main channel; 33-ft. reinforced concrete deck girder span approach at each end; approximate cost \$17,500.

Tex., Waxahachie—Details under Road and Street Construction.

Va., Hillsville—Carroll County Supvrs., let contract to V. E. Cornett, Independence to build concrete bridge across Chestnut Creek, near filtering plant, connecting with Piper's Gap road.

Va., Petersburg—W. W. Boxley & Co., Roanoke, Va., was awarded contract at \$559,302.80 to build 2250-ft. reinforced concrete overhead bridge to Colonial Heights, from 2nd St. to where concrete roadway to Richmond starts; total cost \$603,000, to be shared as follows: City of Petersburg, \$219,000; Norfolk & Western Ry., \$186,000; Virginia Railway & Power Co., \$75,000; Atlantic Coast Line Ry., \$48,000; State Highway Comm., \$75,000; State Highway Comm., Richmond, will construct fill at north end of bridge, and pave road from present paved highway to Richmond.

West Virginia—State Road Comm., Charleston, will receive bids until April 8 for 21 bridges as follows: Project 31388-Mason Co., 5 mi. Bridge No. 857, concrete deck girder, with 60-ft. span; 3 mi. bridge No. 85, 835-ft. span, concrete deck girder; 3226-McDowell County, East War Bridge No. 905, and Johns Branch Bridge No. 906; concrete substructures, and 140-ft. span steel through truss superstructures; 3188-Wayne County, Stone Coal Bridge No. 898, 85-ft. span steel pony truss; superstructure only; 3167-Marshall County, Denver No. 885, 150-ft. steel superstructure only; 2066-Ohio County, Ridgely No. 761, 80-ft. span concrete arch; 3162-Wetzel County, Scheidler No. 886, 35-ft. span, concrete through girder, and 4 concrete bridges as follows:

Moore No. 892; Wade No. 893; Cook No. 894; Huff No. 895; 80-ft. spans each; 3082-B-Wetzel County, Proctor No. 948, 54-ft. concrete deck girders; 2116-A-Wood County, Allison Bridge, 24-ft. span concrete standard slab; 3084-B-Wood County, Slate No. 744, reconstruction west abutment concrete; 3111-Gilmer County, Cedar Creek No. 842, masonry substructure and 140-ft. span steel through truss superstructure; 3225-Harrison County, Hughes No. 909, 80-ft. span con-

crete arch; 3225-Harrison County, Hackers Creek No. 910, concrete substructure and 80-ft. steel pony truss superstructure; separate proposals for substructure; 3255-Lewis County, Jane Lew No. 908, 80-ft. span concrete arch; 5-ft. sidewalk; 2135-Marion County, Annabelle No. 899, 40-ft. span concrete deck girder; 3279-Webster County, Grassy Creek No. 690, two 50-ft. spans concrete arch, and Holly River No. 920, 80-ft. span concrete arch.

122-B-Grant County, Abrams Creek, No. 883, 80-ft. span pony truss; superstructure only; 3, 46-Grant County, Klines Gap No. 884, three 20-ft. concrete slabs; 134-Hampshire County, Hanging Rock No. 670, concrete substructure and 100-ft. steel through truss superstructure; separate proposals for substructure; 117-Randolph County, Leading Creek, 846, two 60-ft. spans concrete arch; 3211-A-Randolph County, Leading Creek Gilman Road No. 953, concrete substructure and 80-ft. steel pony truss superstructure; separate proposals for substructure; 3033-Randolph County, 2 bridges over Ralston Run, No. 865 and 866, concrete through girders, 40-ft. spans each; plans, etc., on file; E. B. Carskadon, Sec.

Canning and Packing Plants

S. C., Spartanburg—Wadsworth Packing Co., has building and will install machinery for canning plant with capacity of 15 carloads tomatoes and vegetables; Cyrus F. Carter, in charge.

Clayworking Plants

Ga., Augusta—W. R. Barringer, Propr. of Hotel Richmond, reported to have acquired Independent Brick Co. plant.

Okl., Oklahoma City—Kenyon Brick & Tile Co., A. W. Kenyon, Pres., will erect addition to consist of brick kilns, brick dryer, wood tramway, storage building, daily output 50,000 common brick, face brick and tile; construction begun; will install electric shovel, electric hoist, new brick dryer and cars and 9 round kilns; Chase Foundry & Machine Co., Columbus, Ohio, J. C. Steele & Sons, Statesville, N. C., and Equitable Equipment Co., New Orleans, La., machinery contractors; construction by owners.

Va., Emporia—Emporia Brick Corp., W. C. Weaver, Pres., has acquired building and will manufacture bricks, daily output 15 to 20,000 bricks. (Lately noted.)

Va., Hopewell—Dixie Decorating Co., capital \$40,000, incorporated with F. F. Nickell, Pres.; C. T. Wilson, Sec., manufacture pottery, tile and earthen product.

Coal Mines and Coke Ovens

Ala., Jasper—Deepwater Coal & Iron Corp., organized under laws of Delaware with authorized capital of 100,000 shares 7 per cent, accumulative preferred stock of \$100 par value and 200,000 shares of no par value common stock; officers are: Chairman of Board, L. B. Musgrove, Jasper; Pres., Charles A. Meade; V.-Presidents are: Walter Douglas, John M. Goetichius, of New York City, and Morris R. Poucher, 527 5th Ave., New York City; Treas.-Sec. and Counsel, Charles T. Lark, 527 5th Ave., New York; other members of the Board of Directors are: Frank W. T. Amis, Matthew C. Fleming, Samuel Hill, Courtland Linkroom and Edgar Palmer; Engrs, Robert W. Hunt Co., 2200 Insurance Exchange, Chicago, Ill.

The Company has acquired in fee simple mining rights of approximately 511,000 acres in Walker, Winston and Marion Counties, Ala., as well as Big and Little Dauphin Islands at the mouth of Mobile Bay; the tracts will be developed initially as coal

properties and engineering parties will be placed in the field shortly to secure information upon which to base the developments of the Company's properties.

Ky., Lexington—Hazard Fuel Co., capital \$50,000, incorporated by P. F. McConnell, W. J. Raybould and others.

Mo., St. Louis—Barnett Coal & Mining Co. capital \$10,000 incorporated by Wm. T. Barnett, W. B. Barnett, 6124 Pershing Ave., and others.

Okl., Okmulgee—Monezuma Creek Coal Co., capital \$50,000, incorporated by Harlan Read, H. D. Lloyd and others.

Tenn., Chattanooga—Sewanee Coal & Coke Co., changed name from Sewanee Coal Co.; increased capital from \$10,000 to \$25,000.

Tenn., Chattanooga—Spears Havelly, representing Kentucky interests, reported to have acquired 20,000 acres Moore-Darwin Coal lands in Bledsoe County, from Charles C. Moore.

Va., Covington—E. G. Hiron Coal Co., capital \$25,000, incorporated with E. G. Hiron, Pres.; N. N. Hiron, Sec.

W. Va., Ferguson—The Kenova-Lincoln Coal Corp., Box 205, Kenova, W. Va. (lately noted, incorporated, capital \$100,000) organized with W. R. White, Pres., Bristol, Va.; Henry Hensley, Sec., Kenova; has 454 acres under development, present daily output 100 tons; mining machinery all installed; invite prices on relaying rails, switches, etc. (See Machinery Wanted—Rails, Switches etc.)

W. Va., Macbeth—Logan Eagle Collieries, Virginia Hotel Bldg., Stratton St., Logan, W. Va., organized to take over the entire properties of the Macbeth Coal Co. on Rum creek; about 63,000 acres of coal land, the colliery is equipped with a modern slope, steel tippie, and all modern mining machinery; the plant is located at town of Macbeth, having about 88 houses, club house, bath houses, amusement park and other modern civic facilities.

W. Va., Morgantown—Howesville Coal Co., capital \$10,000, incorporated by Stephen F. Elkins, Thos. A. Robertson and others.

Concrete and Cement Plants

Fla., Bartow—Details under Fla., Jacksonville.

Fla., Jacksonville — Shearman Concrete Pipe Co., main office Knoxville, Tenn., advises the MANUFACTURERS RECORD of the following improvements; establishing plant at Jacksonville, to cost approximately \$50,000 when ready to operate; plant at Roanoke, Va., to cost about \$50,000 and at Bartow, Fla., to cost about \$30,000 when fully equipped, output of this plant to be sanitary, culvert and railroad pipe; definite locations for three other plants have not been decided upon; Company at present is operating plants at Knoxville, Tenn., Little Rock, Ark. and Atlanta, Ga. (Lately noted.)

Georgia—The Clinchfield Portland Cement Corp., Kingsport, Tenn., has begun construction of a new plant on land recently acquired at Coreen, Ga.; wet process with annual capacity initially of 750,000 bbls. annually with ample provision for expansion.

Okl., Tulsa—Cannady Mixed Concrete Co., capital \$10,000, incorporated by H. L. Cannady, L. S. McCaslin and N. C. Orr.

Tenn., Memphis—Memphis Lime & Cement Co., capital \$50,000, incorporated by Herman Harris, W. T. McLain and others.

Tex., San Antonio—San Antonio Portland Cement Co. will soon invite bids on construction of 32 x 96 x 30-ft. raw mill building at Cementville, reinforced concrete

foundation, steel frame and sheet metal siding, estimated cost \$25,000; also erect 10 concrete tanks, 20 x 50-ft. high, reinforced concrete construction, estimated cost \$100,000; W. E. Simpson Co., Engrs.

Va., Roanoke—Details under Fla., Jacksonville.

Cotton Compress and Gins

Miss., Monticello—Monticello Gin Co., capital \$6000, incorporated by J. D. and Robert C. Gillaspay and others.

Tex., Beaumont—Harry W. Gilbert of H. W. Gilbert Cotton Co. will construct first unit of cotton compress on Beaumont and Port Arthur Ship Channel; other units to be added as needed. (Lately noted.)

Tex., Greenville—J. F. Moudy, E. Pickett St., has under construction cotton gin with daily capacity of 200 bales; will install 5-7 saw battery; contract for equipment let to Lummus Cotton Gin Sales Co., Dallas, and Hardwick-Etter Co., Sherman, Tex.

Tex., Idalou—Smith Bros. will erect ginning plant, with daily output 60 bales; 22x 80-ft.; cement floors; iron roof; will install 5-80 saw Munger special; contract for equipment let to Continental Gin Co., Dallas. (Lately noted.)

Tex., Knox City—Cotton Growers Gin Co., capital \$10,000, incorporated by R. L. Mulling, W. L. Swift and others.

Tex., San Benito—San Benito Gin Co., J. B. Nosler and Fred H. Hanley, will erect cotton gin; 4 stand gin each with 80 saws; electrically operated; 100 bales capacity every 24 hours; power will be furnished by Valley Electric and Ice Co.

Drainage and Irrigation

Fla., Tampa—Supvrs. of the Dover Drainage Dist., M. D. Pooler, Sec., 32 Giddens Bldg., will receive bids until March 15 for construction of mains and laterals; McElroy Engineering Co., Chief Engr., Tampa.

Tex., Mercedes—Levees—Hidalgo Irrigation Dist., B. F. Shaw, Engr., will receive bids until March 15 to construct flood prevention, earthen and concrete levees; estimated cost \$100,000; cost of project to be divided between Hidalgo County, Mercedes City and Gulf Coast Ry. Lines.

Electric Light and Power Plants

Fla., New Smyrna—Details under Road and Street Construction.

Fla., St. Petersburg—Gandy Bridge Co. let contract at \$50,000 to Hallowell Electric Co., St. Petersburg, for installing lighting system and electric work in connection with operation of drawbridge; lighting system will be furnished by General Electric Co., Schenectady, N. Y. and will consist of 93 units equipped with 400 candlepower lamps.

Ga., Quitman—F. C. Landers, Mgr., of Valdosta Lighting Co., Valdosta, Ga., will construct transmission line from Valdosta to Quitman, cost \$50,000; will supply hydro electric current and power to city.

Ky., Caseyville—Col. L. R. Lukesh, U. S. Dist. Engr., Louisville, Ky., reported supervising drawing of plans and specifications for dam No. 50 on site near Ford's Ferry six miles below Caseyville; Government will call for bids for construction of locks and guide walls; locks will be located on Kentucky side of river on rock foundation; cost of lock and guide walls about \$1,500,000; cost of entire project \$5,000,000; dam No. 50 leaves but 4 more government river projects to be started before vast improvement program commenced in 1897 is completed, thereby opening Ohio River for navigation from Pittsburgh to the Mississippi; dam No. 47 at New-

burg will also be started this year; locks and guide walls having been completed by the National Contract Co., Evansville, Ind. will soon call for bids for construction.

Ky., Newburg—See Ky., Caseyville.

La., Baton Rouge—Details under Land Developments.

Md., Baltimore—Consolidated Gas, Electric Light & Power Co. reported to erect direct-current electric substation at 409 Tyson St.; 2 story brick; 85x92 ft.; cost about \$170,000.

N. C., Asheville—Details under Land Developments.

N. C., Forest City—C. F. Laughridge acquired holdings of Clinchfield Light & Power Co.

N. C., Greensboro—North Carolina Public Service Co., Inc., chartered by S. W. Waggoner, B. B. Bassett and R. E. Jobe; will succeed present North Carolina Public Service Co.

S. C., Easley—L. M. Bauknight, R. L. Perry and others interested in establishment of rural electric line to furnish light and power for residents on highway No. 2 between Easley and Greenville.

Tex., Columbus—Columbus Power & Light Co., incorporated with Dr. A. S. McDaniel, Pres., San Antonio, Tex., O. A. Zunwalt, Sec.; has secured franchise rights for digging canals, etc. and has applied to Board of Water Engineers for State of Texas, for permission to construct dam on the Colorado River, 600 ft. long with 6 ft. top and base of sufficient length to take care of wash, forming lake 10 miles long with average depth of 7½ ft.; overflow type, solid construction with light reinforcement; cost of dam, power house and canal about \$500,000; tentative plans have been prepared; detailed plans will be worked out after rights are secured. (Lately noted.)

Tex., Dallas—City, R. A. Wylie, Street Commr., considering construction of white way system on Young street from Harwood to Union Terminal; will let contract soon for installation of 20 ornamental lights on Lamar street.

Tex., Dallas—Texas Power & Light Co. increased capital from \$14,500,000 to \$15,500,000.

Tex., Dallas—City, will soon call for bids for installation of white way system on Lamar street; R. A. Wylie, Street Commr.

Tex., Fort Worth—Fort Worth Power & Light Co. increased capital stock and will expend \$500,000 in extension to suburbs and additional lighting facilities.

Texas—Jno. A. Norris, Chmn. Board of Water Engineers, Austin, Tex., writes the MANUFACTURERS' RECORD regarding proposed construction of 13 dams on the Guadalupe River in Texas: Preliminary reports have been made only on these projects, and the stage for calling for bids has not been reached. The total development will probably be in the neighborhood of 75,000 k. w., but until further information is secured we are unable to be more definite.

Tex., Pearsall—Texas Central Power Co., San Antonio, Tex., has acquired Pearsall light plant; will operate and install 160 h. p. Busch oil engine.

Tex., Port Arthur—Details under Land Developments.

Va., Reusens—Lynchburg Traction & Light Co., Lynchburg, reported to erect addition to power plant increasing total capacity of plant to 8000 h.p.; will install two 1000 k.w. electric generators each directly connected through a 27 ft. vertical steel shaft to water wheel 12 ft. in diam. and of 1830 h.p. capacity; these units will be controlled by oil pressure governors made by

Woodward Governor Co., Rockford, Ill.; plant of brick and concrete built on concrete piers in bed of river immediately back of the dam about 80 ft. from present power house and connected by steel bridge; floor of new building will be about 17 ft. above crest of dam and 40 ft. above normal level of water below dam; coffer dam will be built immediately below and above sections of dam where new plant will be constructed to hold back water during construction; other contracts reported placed are: to Westinghouse Electric & Manufacturing Co., Pittsburgh, Pa., for electrical equipment; James Leffel & Co., Springfield, Ohio, for water wheels, gates and governors; to Newport News Ship Building & Dry Docks Co., Newport News, Va., for leaf or rack rakes; plans were made by C. L. Reid, V. P. of William C. Whitner & Co., Engrs., Richmond, Va., who will also be consulting engineer in connection with its construction.

Wire to the Manufacturers Record from the company states "Reusens addition two 1000 k.w. Westinghouse vertical generators, Leffel 1830 h.p. wheels, two Newport rakes; William Whitner & Co., Engrs.; new building 31x54 ft. set in present dam 80 ft. from present building connected by bridge."

Va., Richmond—Public Service Power Co., capital \$100,000, incorporated with Cyrus W. Beale, Pres.; Guy B. Hazlegrove, Sec.

W. Va., Huntington—Cabel County Comms. let contract to Consolidated Power & Light Co., to install 250 candle power lights at various intervals along Pea Ridge road between Pat's Branch and plant of International Nickel Co.

Flour, Feed and Meal Mills

Ala., Decatur—Decatur Mill & Elevator Co., capital \$25,000, incorporated with C. W. Knight, Pres.; R. H. Jervis, Sec.; will establish corn meal mill, later plans erection of flour blending mill.

Ky., Henderson—O. Baskett Grain Co., lately noted, to build mill; will not erect buildings, but will take over established plant.

Okla., Grove—W. H. Doherty, Sr., of Muskogee, reported to be interested in erection of flour mill.

Okla., Oklahoma City—Feeders Milling Co., capital \$20,000, incorporated by C. H. Stewart, W. S. Tinsley and others.

Foundry and Machine Plants

Ala., Anniston—Central Foundry Co., E. B. Cooper, Mgr., having plans prepared for the erection of new plant. (Lately noted burned at loss of \$25,000.)

Fla., Jacksonville—Otis Elevator Co., W. D. Baldwin, Pres., 26th and 11th Ave., New York, reported to have acquired 105 x 52½-ft. site corner Forsyth and Newman Sts., will erect 2 story building to be used as headquarters in northern Florida and southern Georgia; H. B. Bailey, branch Mgr.

Md., Baltimore—Commerce Iron Works, Inc., 1907 Washington Blvd., capital \$20,000, chartered by A. A. Luthy, Thos. E. Winkler and others.

Va., Alexandria—Temple Foundry, Inc., capital \$25,000, incorporated with Victor E. Beagle, Pres.; Frank Michelbach, Sec.

Va., Norfolk—Cherry Welding Corp., capital \$15,000, chartered with W. M. Cherry, L. D. Early, Sec.

Gas and Oil Enterprises

La., Lake Charles—Lake Petroleum Co., Inc., capital \$35,000, incorporated with L. Selss, Pres.; Robert L. Wynne, of Beaumont, Tex.

La., Lake Charles—Green Oil Co., capital \$100,000, incorporated with W. S. Green, Pres.; E. V. Sanborn, Sec., both Vinton, La.

La., Springfield—Indian Bayou Oil & Gas Co., Inc., increased capital from \$35,000 to \$100,000.

Okla., Ardmore—Nuevo Oil Co., capital \$25,000, incorporated by H. L. Sturm, of Ardmore; A. R. McLennan of Lawton, Okla., and others.

Okla., Muskogee—Muskogee National Co., capital \$100,000, incorporated by A. C. Trumbo, L. C. Parmenter and others.

Okla., Oklahoma City—The Elo Oil Co., capital \$25,000, incorporated by Emile Offenbacher, R. L. Gise and others.

Okla., Tulsa—Glass Drilling Co., capital \$15,000, incorporated by F. E. Glass, Carter Smith and others.

Okla., Tulsa—Harmack Petroleum Co., capital \$10,000, incorporated by F. B. McDonald, R. Ferris and others.

S. C., Charleston—Gulf Refining Co., main office Pittsburgh, Pa., W. B. Lamb, Supt. of Construction, will erect storage and distribution station near Charleston; refinery at Port Arthur, Tex.; will supply product for plant and same will be transported in company's ships direct from refinery to terminal; construction at this time includes warehouse, garage, cooper shop, barrel shop, drum filling warehouse; Loller room; pump house; car shops, machine shop and office; brick and concrete construction; work also includes dredging of a 28 ft. channel from the 28 ft. contour in the Cooper River, erection of marginal bulkhead and dock 1100 ft. in length; tankage to be erected at this time will have a capacity of 300,000 bbls.; station will be located on Shipyard Creek. (Lately noted.)

Tex., Corsicana—Central Oil Corp., capital \$250,000, incorporated by Guy L. Warren, Wm. P. Edwin and others.

Tex., Fort Worth—Churchill Drilling Corp., capital \$9000, incorporated by F. L. Churchill, C. L. Morgan and others.

Tex., Orange—Sycamore Oil Co., subsidiary of National Oil Co., New York, owners of Seaboard Oil and Refining Co. will remodel and enlarge local plant; increase capacity to 10,000 bbls. oil daily.

Tex., Mexia—The Pure Oil Co. of Columbus, Ohio, reported to have acquired entire holdings of the Humphreys Oil Co.

Wire to the Manufacturers Record from the Pure Oil Co. states "Pure Oil Co. acquired all outstanding stock of Humphreys Oil Co. and Humphreys Co. dissolved as of March 1st. In this deal Pure Oil Co. acquired all assets of Humphreys Co."

Tex., Port Arthur—Atlantic Refining Co. reported to begin construction of 2500 bbl. capacity refinery.

Tex., San Antonio—World Gasoline Co. capital \$50,000, incorporated by Hugh McLehlan, F. M. Burkenforfer and others.

Tex., Wichita Falls—Gwynn-Boyd Drilling Co., capital \$28,000, incorporated by P. F. Gwynn, J. F. Boyd and others.

W. Va., Clarksburg—Hi Test Gas Co., capital \$50,000, incorporated by L. E. Gibson, W. G. Wymer and others.

Ice and Cold-Storage Plants

Ala., Montgomery—Atlantic Ice & Coal Corp., A. B. Pope, Mgr., is building icing platform and unloading platform of wood with concrete piers; construction by owners. (Lately noted.)

Mo., St. Charles—St. Charles Ice & Cold Storage Co., capital \$35,000, incorporated by

Reuben Way, Jr., First National Bank Bldg., and others.

N. C., Greensboro—The Rucker Bonded Warehouse Co., plans erecting cold storage plant, estimated cost between \$50,000 and \$100,000; J. M. Workman, Engr.

N. C., North Wilkesboro—F. P. Blair, S. V. Tomlinson and others, reported to have under construction ice factory, estimated cost \$35,000.

N. C., Salisbury—Citizens Ice & Coal Co. increased capital from \$75,000 to \$450,000.

Tenn., Union City—Citizens Ice & Cold Co. increased capital from \$30,000 to \$50,000.

Tex., Fort Worth—Shaw Brothers let contract to J. D. Johnson to erect ice storage house as an addition to present plant, capacity 22 carloads, will contain all modern features including chutes, etc. and fitted to load two railroad cars at one time; estimated cost \$12,500; Fort Worth Steel & Machinery Co. furnished steel for plant.

Land Development

D. C. Washington—Dinowitz Realty Co., capital \$200,000, incorporated by Louis Dinowitz, Myrtle J. Howard and others.

Fla., Ormond—Ormond Development Co. organized with Franklin N. Wood, Pres.; Harriett Putnam, Sec.-Treas.; have acquired and will develop 500 acres of land for subdivision.

Fla., Fort Pierce—R. H. Gardner of Sewall's Point acquired 240 acres of land and will develop.

Fla., St. Petersburg—Fred Householder, M. J. McBride, both of Pittsburgh, Pa., and others have acquired 21½ acres of land through R. G. Carroll Realty Co. and will develop.

Fla., St. Petersburg—C. R. Reed acquired 10 acres of land and will develop for subdivision.

Fla., St. Petersburg—T. S. Thorp acquired 70 acres and will develop for subdivision.

Fla., St. Petersburg—H. L. Hall and I. N. Hastings of West, Va., have acquired 20 acres of land and will develop for subdivision.

Fla., St. Petersburg—Laughner Enterprises, Inc., capital \$500,000, chartered with A. V. Laughner, Pres.; C. C. Laughner, Sec.

Fla., Tampa—Charles P. Clover and associates are developing Sunset Beach and Sunset Park subdivision; will pave more than 20 streets and avenues with asphalt blocks, install water and sewer system and lay cement curbs and sidewalks; McElroy Engineering Co., Engrs. (Lately noted.)

Fla., Tampa—Details under Road and Street Construction.

Fla., Tampa—W. D. McAdoo has acquired Memorial Highlands subdivision and will resume development work.

Fla., West Palm Beach—City Builders Realty Co., acquired 3 ocean front tracts totaling about 2½ acres and will develop for subdivision; will drain creek running through portion of the land, etc.

Ga., Macon—James A. Whiteside of Macon, G. W. Peake of Eufaula, Ala., and others will develop pecan nursery.

Ky., Louisville—Ohio Valley Realty Co., capital \$50,000, incorporated by D. B. Perkins, H. G. Brooks and others.

La., Baton Rouge—B. E. Perkins will develop University Acres as subdivision; will install water works, electric lights, sewers, graveled streets, etc.

La., Baton Rouge—A. F. Cazedessus is developing Zeeland Place for sub-division; will install water, lights, sewer, roads, etc.

La., Baton Rouge—George Tregre & Co., Inc., capital \$12,000, chartered by Geo. Tregre, W. P. Connell and others.

Md., Baltimore—South River Land Co., 35 Gunther Bldg., capital \$30,000, incorporated by Harry Busick, Wm. D. Tinnille and others.

Md., Baltimore—Empire Realty Corp., 700 Equitable Bldg., capital \$10,000, incorporated by Gilbert H. Panitz, Simon Rief and others.

Md., Baltimore—Young Realty Co., 916 N. Charles St., capital \$10,000, incorporated by Thos. D. Young, Alfred F. Krug and others.

Md., Baltimore—Monumental Realty Corp., 440a Equitable Bldg., capital \$11,000, incorporated by Chas. H. Lesner, Herbert J. Herman and others.

Miss., Gloster—Teachers Pecan Land Co., capital \$10,000, incorporated by H. B. Gamnell, Gloster; N. Steele, Liberty, Miss., and others.

Miss., Natchez—Natchez Ice Co. has under construction new unit to present plant, 40 ton capacity increasing total output to 75 tons; new equipment includes a refrigerating and filtering system and additional 100 h.p. Diesel engine, and an electric unit to supply lights and power.

Mo., St. Louis—Edward Realty Co., capital \$10,000, incorporated by Edward and Morris Lasky and others.

Mo., St. Louis—Geneva Investment Co., incorporated by F. P. Ryan, Johanna Sheehan and others, care of Dougherty Sheehan Real Estate Co., 721 Chestnut St.

Mo., St. Louis—Adolph Hoefer Real Estate Co., capital \$50,000, incorporated by Adolph Hoefer, John Hoefer, Sr., 4547 Clayton Rd., and others.

N. C., Asheville—Malcragson Land Co., Garland A. Thomasson, Pres., has acquired 300 acres of land and will develop for subdivision; will expend \$20,000 in improvements; construct streets; install water, sewer and light systems.

N. C., Goldsboro—Farmers Realty Co., capital \$50,000, incorporated by L. A. Raney, Goldsboro, J. B. Bowden, of Dudley, N. C. and others.

N. C., Greensboro—Cox & Grubbs, Inc., capital \$25,000, incorporated by E. G. Cox, B. B. Vinson and others.

N. C., High Point—High Point Country Club has retained E. S. Draper, Landscape Archt. and City Planner, Charlotte, to plan development of club grounds to include swimming pool, walks, concrete drives, grading and planting.

N. C., Lexington—Erlanger Cotton Mills has retained E. S. Draper, Landscape Archt. and City Planner, Charlotte, N. C., to plan development of community grounds to include swimming pool with pergola enclosure, bath houses, wading pool and play grounds.

N. C., Raleigh—Stephenson Realty Co., 14 E. Martin St., capital \$100,000, incorporated by Matt R. Stephenson, James McKimmon and others.

Okla., Hominy—Franks Ranch Co., capital \$100,000, incorporated by G. E. Anderson, and W. H. Noel of Pawhuska.

S. C., Columbia—Moore Realty Co., capital \$50,000, incorporated by Thomas T. Moore, Jr., Jerome Moore and others.

S. C., Pickens—Dr. J. L. Valley and others interested in establishment of Y. M. C. A. camp on 163 acres of land; will erect administration buildings, construct dam to form lake, etc.

Tenn., Knoxville—John Rogers Co., Inc., 103 Empire Bldg., capital \$10,000, chartered with John Rogers, Pres.; T. A. Falconnier

Sec.-Treas.; consolidated with Falconnier Brownfield Realty Co., and John Logan Co.

Tex., Houston—Quick Development Syndicate, Inc., increased capital from \$110,000 to \$170,000.

Tex., Houston—Ford Realty Co., increased from \$15,000 to \$30,000 changed name from Ford & Damon Realty Co.

Tex., Port Arthur—Suburban Development Co., lately noted incorporated with \$36,000 capital, G. W. Imhoff, Pres.; Geo. T. Craig, Sec.; will develop 40 acres for subdivision; will install city water works; electric lights; private sewer; shell streets, etc.; expend about \$35,000.

Va., Norfolk—Wyoming Land Co., capital \$250,000, incorporated by H. W. Walker and others.

Va., Norfolk—Tabwood Realty Corp., incorporated with Jacob Rotholz, Pres.; V. H. Nusbaum, Sec.

W. Va., Bluefield—Kenneth Bailey and others have acquired 25 acres and will develop for cemetery; will incorporate company with \$75,000 capital; will enclose and construct asphalt driveways with extensive parking space; install water and storm drains; E. S. Draper, Charlotte, N. C., Landscape Archt. and Engr., L. T. Cadle, resident engineer.

W. Va., Charleston—E. S. Tisdale, Earl Bastian and others reported interested in development of tourist camp.

W. Va., St. Albans—St. Albans Realty & Investment Co., capital \$25,000, incorporated by J. M. McCormick, F. D. Burgess and others.

W. Va., Shady Springs—Pine Grove Park Co., capital \$100,000, incorporated by E. E. Robertson, Chas. Stroud and others.

Lumber Enterprises

Ala., Birmingham—North Birmingham Lumber & Coal Co., R. A. Adams, Mgr., will rebuild portion of plant, burned at loss of between \$50,000 and \$100,000.

Ark., Bald Knob—The J. H. McHale Lumber Co. has acquired about 3700 acres timber land; will develop.

Fla., Rio—Rio Lumber Co., T. H. Banes, Gen. Mgr. of Fort Pierce, Fla., represents a consolidation of the Ford Lumber Co., of Indianrio and the Pineda Lumber Co., Pineda; has acquired timber rights on two tracts in southern St. Lucie County, including about 27,000 acres with 16,000,000 ft. lumber of the Thompson and Jackson land and 11,800 acres with 8,000,000 ft. timber of the St. Lucie Garden tract; will erect lumber mill with monthly capacity of 500,000 ft. finished lumber, also build 14 mi. logging road from Rio westward.

Fla., Tampa—Alexander Lumber Co., E. Lafayette St., will move plant to new site at 13th and 1st Ave.; have made contracts with the Atlantic Coast Line R. R. and the Seaboard R. R. for laying spurs and tracks into the plant; other improvements include about 600 ft. of shed roofed with corrugated iron, installing resaw and planing machinery, etc.

Ga., Augusta—DeWitt-Gerrans Lumber Co., capital \$15,000, incorporated by Charles M. DeWitt and Alfred T. Gerrans.

Miss., Grenada—Lee E. Glass Lumber Co., capital \$25,000, incorporated by H. W. Thorn, Grenada; Lee E. Glass, Memphis, Tenn., and others.

Miss., Hopewell—C. C. Spence of Hazlehurst, Miss., has acquired 640 acres land; will erect saw and planing mill.

Miss., Jackson—White Central Lumber Co., capital \$100,000, organized with Hugh White, Pres., Columbia, Miss., has acquired the

plant of the Central Lumber Co.; will continue existing business.

N. C., Belhaven—Belhaven Pulp and Lumber Co., capital \$100,000, incorporated by J. A. Wilkinson, W. C. Allen, Jr., and others.

N. C., Littleton—Schlichter Lumber Co., capital \$100,000, incorporated by A. B. Aschlichter, Jr., and A. B. Schlichter, Sr., and others.

N. C., Newbern—Derrickson-Blades Lumber Co., capital \$25,000, incorporated by V. B. Derrickson, W. B. Blades and others.

Okla., Chickashaw—Stephenson Browne Lumber & Manufacturing Co.; with the new by H. A. Stephenson, E. O. Killey and others.

Okla., Enid—Kiowa Lumber Co., will erect 75x150-ft. plant, brick with concrete foundations, concrete floors, Johns-Manville roof, estimated cost \$10,000; bids open; R. W. Shaw, Archt., Enid.

Tenn., Memphis—Lee Lumber Co., R. E. Montgomery, Sr., Pres., has acquired outright the yards, mill, stock, etc., of the York Lumber & Manufacturing Co.; with the new facilities will have an annual output totaling 2,500,000 ft.; increased capital from \$500,000 to \$750,000.

Va., Christiansburg—Economy Lumber Co., capital \$50,000, incorporated with C. W. Surface, Pres.; A. T. M. Rusk, Sec.

Metal-Working Plants

Tex., Corpus Christi—Pressed Metal Co., capital \$10,000, incorporated by C. J. Jennings, M. W. Shely and others.

Mining

Mo., St. Louis—Manchester Quarry & Construction Co., incorporated by Andrew W. Sheridan, Joseph F. Maloney and others.

N. C., Asheville—Uneka Mining Co., organized with \$50,000 capital, James E. Rector, Atty., 11 Church St.; will conduct mining operations in East Tennessee and western North Carolina; will install mining machinery including small air compressor, air drills, tram cars and small rails, trucks, equipment for hydraulic mining and ore washing machines. (See Machinery Wanted—Mining Machinery).

N. C., Murphy—United States Kaolin Co., capital \$1,000,000, incorporated by E. E. and H. A. Fisher, both Murphy; R. E. Harris, of Rome, Ga.

N. C., Spruce Pine—Kaolin—Norman G. Smith & Co., Inc. branch of the Maine Feldspar Co., Brunswick, Maine, organized to manufacture kaolin as used in the ceramic industries; will install steam plant, operate mines with electricity developed by steam at the main plant.

Tex., McNeil—Lassig Limestone Quarry, Inc., O. J. Lassig, Pres.-Mgr., Grove St. and St. Charles St., has 2300 acres under development; will install \$4000 quarry machinery. (Previously noted.)

Miscellaneous Construction

Fla., St. Petersburg—Shore Line Improvement—Northern Dock & Dredging Co., 428 Metropolitan Bank Building, Minneapolis, Minn., reported to have contract for shore line improvements of Old Tampa Bay from the Coffee Pot to Gandy Bridge, making the entire shore line from the municipal pier to the bridge accessible, low spots reclaimed and filled in, thickets removed and replaced by parkways, etc.

Fla., Tampa—Incinerator, Seawall—Details under Road and Street Construction.

Mo., Glasgow—Bank Protection—Woods Bros., Construction Co., Lincoln, Neb. lowest bidder at \$189,000 for construction of series

of retards along the Missouri river bank in connection with Federal Aid Proj. No. 217, Missouri River bridge; B. H. Plepmeier, Chief Engr., State Highway Dept., Jefferson City, Mo. (Lately noted.)

N. C., High Point—Swimming Pool—Details under Land Developments.

N. C., Lexington—Swimming Pool—Details under Land Developments.

S. C., Charleston—Docks, etc.—Details under Gas and Oil Enterprises.

Tenn., McMinnville—Dredging—Warren County Levee Board, W. G. Paxton, Pres. will receive bids until April 3 to dredge channel in Muddy Bayou from Eagle Lake to Steeles Bayou.

Tex., Fort Sam Houston, Sta., San Antonio—Construction Quartermaster, opened bids for 30,000 ft. of concrete floors and runways for Kelly Field; F. A. Wilson, lowest bidder.

Va., Berkley, Sta. Norfolk—Terminal—The Hampton Roads Coal and Bunkering Corp. let contract to Fairbanks, Morse & Co., Chicago, Ill., in connection with construction of a 650 ft. bunkering pier, which is first step in extensive development of portion of Berkley waterfront, estimated cost \$120,000; subcontract let to Hitt & Brown for electrical work and to the Standard Iron Works for steel work, both Norfolk; plans for second pier are being compiled; will probably cost between \$700,000 and \$800,000; Col. M. D. Butler, Engr., Norfolk.

Miscellaneous Enterprises

Ala., Anniston—Anniston Chero-Cola Bottling Co., capital \$10,000, incorporated by J. F. Geise, C. O. Wolfe and others.

Ala., Birmingham—Laundry—R. L. Autrey let contract to The F. B. Hubbard Construction Co., to erect 90 x 88-ft. laundry building at 8th St. and Buffalo Bayou; reinforced concrete construction; estimated cost \$35,000.

Ala., Gadsden—G. H. Rich reported to manufacture paving brick from furnace slag.

Ala., Gadsden—L. E. Lokey and C. W. Singleton have purchased plant of the Marshal Ice Cream Co., will remodel, installing new equipment.

Ala., Prichard—The Reliance Manufacturing Co., M. L. Monheimer, V. P., 212 W. Monroe St., Chicago, Ill., reported to have taken over and operate the Barker Cotton Mill and the Hamilton-Carhart Co. and will specialize in the making of "Big Yank" work shirts.

D. C., Washington—Wm. H. Saunders Co., Inc., capital \$100,000, incorporated by Claude Livingston, Wm. H. Saunders and others.

D. C., Washington—Gumpert Hotel Co., capital \$50,000, incorporated by Augustus Gumpert, Mary E. Branson and others.

D. C., Washington—National Radio Service, Inc., capital \$25,000, incorporated by R. F. Teunis, Wm. B. Jaynes and others.

D. C., Washington—Shannon & Luchs Construction Co., capital \$500,000, incorporated by Herbert T. Shannon, Morton J. Luchs and others.

Fla., Tampa—Fire Alarm System—Details under Road and Street Construction.

Ga., Macon—Fullers Earth—The General Reductions Co., of Dry Branch, Ga., contemplates establishing plant for the manufacture of fullers earth.

Ky., Ashland—Ashland Bakery, O. C. Feuchtenberger, Mgr. (lately noted to have purchased building), will erect 4-story, 60x35-ft. store room building, brick and concrete construction, built-up roof, estimated cost \$25,000; invite prices on electric light-

ing equipment, heating plant, face brick, etc. (See Machinery Wanted—Building Materials; Heating Plant.)

Ky., Paducah—City Baking Co., 122 N. Second St., organized by S. J. G. Rehkopf and R. W. Katterjohn; let contract to Gus Lockwood to erect 3 story, 40 x 140-ft. building, tin roof; install bakery equipment, all purchased, daily output 6000 loaves bread and pastries. (Lately noted.)

Ky., Louisville—Ross and Wood Manufacturing Co., capital \$10,000, incorporated by Harry H. Ross, Wm. Woods and others.

La., Baton Rouge—Contracting—Ogden & Lewis, Inc., capital \$75,000, incorporated with O. O. Ogden, Pres.; Jesse G. Ogden, Sec.-Treas.

La., Baton Rouge—Baton Rouge Rubber Mfg., Inc., capital \$500,000, chartered with M. Leon Castay, Pres.; Fred G. Gibson, Sec.

La., New Orleans—Globe Supply & Machinery Co., increased capital from \$50,000 to \$75,000.

La., New Orleans—New Orleans Future Film Corp., chartered with A. C. Jacobs, Pres.; Crawford H. Ellis, Treas.

Md., Baltimore—Capital Contracting Co., 521 Calvert Bldg., incorporated by John Armiger, Henry M. Reinhart and others.

Md., Baltimore—International Wine Co., 11th St. and Philadelphia Rd., capital \$100,000, incorporated by Thos. F. Thierman, Walter N. Damas and others.

Md., Baltimore—J. E. Godwin, Ten Hills, let contract to The Austin Co., Cleveland, Ohio, to erect 1 story building on Clifton Ave. for printing plant, 100x100 ft. brick and steel construction; steam heat; estimated cost \$32,000.

Md., Baltimore—Mead O. Hesson, 1804 Edmondson Ave., will erect 2 story, 33x60x25-ft. brick building for bakery and 40x14x20-ft. stable building; estimated cost \$10,000.

Md., Baltimore—Individual Laundry Service, Inc., 212 S. Garrison Ave., capital \$22,000, chartered by John J. Miles, Edward C. James and others.

Md., Baltimore—Toys, etc.—The Chinese Game Co., 1301 S. Howard St., capital \$100,000, incorporated by Edwin A. Parker, Harry G. Evitt and others.

Md., Frostburg—Georges Creek Journal, Inc., 114 Main St., capital \$25,000, chartered by E. J. Pritchard, H. G. Evans and others.

Miss., Greenville—Wiseman Electric Co., incorporated by W. H. Clements, J. O. Wiseman and others.

Miss., Laurel—Bartram Hoe Works, 304 Front St. (lately noted inceptd., capital \$10,000) organized with John Anderson, Pres.; C. H. Ferrill, Secy.-Treas.; D. W. Bartram, Mgr.; has plant and installed dies, cutters, grinders, polishers, etc.; manufacture steel hoes made from discarded band saws.

Miss., Meridian—John Lyle, K. Three-foot and others interested in erection of \$500,000 creosoting plant.

Mo., Jefferson City—Shepard Shoe Co., capital \$10,000, incorporated by B. Shepard, J. A. Wolford, Title Guaranty Co. and others.

Mo., Kansas City—Best Bag Co., 938 New York Life Bldg., capital \$30,000, incorporated by B. W. Blanchard, Jr., Ernest D. Wilson and others.

Mo., Kansas City—E. J. Straub Contracting Co., incorporated by Ernest J. Straub, Alma M. Straub and others.

Mo., Kansas City—Western Milk Powder Co., 1006 West 17th St., E. K. Eby, Sec., lately noted, incorporated with \$20,000 capital; let contract to Douthitt Engineering Co. to construct building 2 stories, 60x15 ft., for the manufacture of powdered milk;

will install drying roll, concentrator, tanks, boilers, motors, etc., cost of equipment \$15,000.

Mo., Kansas City—Engraving—Baird Co., capital \$55,000, incorporated by Louis H. Buras, J. H. Baird and others.

Mo., St. Louis—Condle Bray Glass & Paint Co., merger of Waggener Paint & Glass Co. and Condle-Bray Glass & Paint Co., with \$1,000,000 capital; directors are J. W. Bray, 4719 Westminster Place, St. Louis; H. D. Condle, 4 Elizabeth avenue, Kansas City, Mo.; J. N. Welter, 1305 Forest avenue, Evanston Ill., and others.

Mo., St. Louis—Rockwood Paper Pulley Stores, incorporated with Geo. O. Rockwood, Pres.; Wm. F. Becker, Sec.; manufacture pulleys from paper.

Mo., St. Louis—American Radio & Research Corp., 1024 Federal Reserve Bank Bldg., capital \$25,000, incorporated with John Axten, Pres.; Havens Grant, Sec.

Mo., St. Louis—Ken Williams Thrift Savings System, Inc., incorporated with A. D. Davidson, Pres.; Jules R. Field, Sec.; manufacture wrappers, containers, etc., for ice cream.

Mo., St. Louis—Mardick Radio Corp., capital \$10,000, incorporated by Fred T. Dickie, Bertrand S. Myers and others.

Mo., St. Louis—Legal Directory Publishing Co., capital \$25,000, incorporated by J. C. Fisher, M. J. Ridel and others.

Mo., St. Louis—Sek-Kil-O Chemical Co., capital \$47,000, incorporated by P. G. Pappas, A. N. Licht and others.

Mo., St. Louis—Lindell Laundry Co., incorporated by J. W. Grossman, Wm. Doges and others.

Mo., St. Louis—Laclede Stoker Co., capital \$10,000, incorporated by F. W. Prip, E. W. Jones and others; manufacture stokers.

Mo., St. Louis—Shiloah Candy Co., capital \$40,000, incorporated by Sam Anastosof, C. M. Hicks, 415 Pine St., and others.

Mo., St. Louis—Cowdery Construction Co., capital \$25,000, incorporated by Erwin A. Cowdery, H. R. Coleman, Central National Bank Bldg., and others.

Mo., St. Louis—The Aseptol Co., capital \$100,000, incorporated with V. I. Merchant, Otto Praeger, 1602 Locust St. and others; to manufacture medicines.

Mo., St. Louis—American Printing Ink Co., Pontiac Bldg. has leased portion of building Nineteenth and Pine Sts. and will improve for plant.

N. C., Asheville—Van Valkenburg Electric Co., incorporated by E. B. Webb, R. M. Wells and others.

N. C., Biltmore—Gallher Brothers, Inc., capital \$80,000, chartered by Merrill T. Gallher, Horace Stinson Clapp and others.

N. C., Charlotte—Carolina Drug & Chemical Co., capital \$350,000, incorporated by P. C. Whitlock, H. C. Dockery and others.

N. C., Charlotte—Southern Construction Co., capital \$40,000, incorporated by John L. Koeppler, John N. Porter and others.

N. C., Greensboro—Henry V. Koonts, Treas., of J. E. Latham & Co., will erect plant on Carolina Ave. for the manufacture of webbing; 60x115 ft.; cost about \$15,000.

N. C., Goldsboro—The Cot-Tone-O Co., capital \$75,000, incorporated by E. O. Cotton, Hugh Dortch and others.

N. C., Greensboro—O. Henry Transfer Co., capital \$50,000, incorporated by Wm. Foor, H. L. Moore and others.

N. C., Greensboro—Harry S. Donnell, Inc., capital \$100,000, incorporated by

Harry S. Donnell, F. J. Blackwood and others.

N. C., Herford—Building Materials—Essex Corporation, capital \$20,000, chartered by E. W. Hunter, Norfolk, Va.; Chas. Wedbee, Herford.

N. C., Lumberton—Planters Building Corp., capital \$100,000, incorporated by K. M. Barnes, G. L. Thompson and others.

N. C., Oxford—The Granville Hatchery, Inc., capital \$10,000, chartered by J. H. Blackwell, W. W. Graham and others.

N. C., Raleigh—U-Needa Home Corp., capital \$100,000, incorporated by H. D. Waldrup, B. J. Utley and others.

N. C., Southport—Glynn Canning Co. of North Carolina, Inc., capital \$25,000, incorporated by T. B. Carr, Southport, H. M. Kreiger, Savannah, Ga., J. B. Abrams, Brunswick, Ga.

N. C., Troy—E. Wade Crawford and others interested in organizing company to publish the Troy Vidette.

N. C., Wilmington—News-Dispatch, Inc., capital \$100,000, incorporated by J. L. Horne, Jr., Chester C. Bellamy and others.

N. C., Winston-Salem—Zinzendorf Laundry Co. will erect laundry; 100x150 ft.; brick walls with steel framing, concrete and wood floors; composition roofing; opens bid for construction March 12; Harold Macklin Archt., Winston-Salem; cost \$60,000.

Okla., Ardmore—Ardmoreite Publishing Co., capital \$100,000, incorporated by John F. Easley, Albert Rieson and others.

Okla., Muskogee—Muskogee Chemical Manufacturing Co., capital \$25,000, incorporated with R. A. Patterson, Pres.; manufacture spraying materials.

Okla., Oklahoma City—The Oklahoma Radio & Electric Co., capital \$50,000, incorporated by E. J. Mackay, W. C. Jones and others.

Okla., Oklahoma City—The Oklahoma State Map & Publishing Co., capital \$25,000, incorporated by David C. Huskey, James Mitchell and others.

Okla., Oklahoma City—Keen Kola Bottling Co., capital \$100,000, incorporated by G. R. Robinett, Chickasha, Okla.; W. H. Phillips, of Lawton, Okla., and others.

Okla., Oklahoma City—Schuyler Manufacturing Co., capital \$60,000, incorporated by Joe B. Wildon, S. O. Brady and others.

Okla., Oklahoma City—Petrie Medicine Co., capital \$10,000, incorporated by Arthur Petrie, Kenneth Dark and others.

Okla., Oklahoma City—Southwestern Rubber Ace Co., incorporated by R. N. Fullerton, H. E. Newsome and others.

Okla., Pawhuska—American Laundry Corp., capital \$15,000, incorporated by J. P. Hall, C. E. Norris and others.

Okla., Ponca City—Ponca City News will erect building, 45x140 ft.; 2 stories and basement; brick with terra cotta trimmings; skylights; vault lights; steam heat; electric wiring; hand elevator; cost \$35,000; let contract to O. F. Keek, at \$45,900 for construction at \$11,223 to Co-Operative Heating & Plumbing Co., Ponca City, for heating and plumbing; and at \$2393 to Kay Electric Co. for wiring.

Okla., Sapulpa—Sapulpa Printing Co., capital \$25,000, incorporated by Ayres K. Ross, A. L. Thomas and others.

Okla., Tulsa—Clipson Cleaning & Dye Works will erect laundry building, 1 story, 105x120 ft.

Okla., Tulsa—Sommer Sign System, capital \$100,000, incorporated by J. E. Sommers, Wm. E. Arnold and others.

S. C., Charleston—White Bus Line, Inc., chartered with Louis P. Jervy, Pres.; J. W. Almeida, Sec.

S. C., Columbia—Time Test Sales Co., incorporated with L. E. Temple, Pres.; T. C. Brown, V. P.-Sec.

S. C., Walterboro—Coco Cola Bottling Co., capital \$10,000, incorporated with T. J. McDaniel, Pres.; Florence E. McDaniel, Sec.

Tenn., Chattanooga—Builders Supply Co., capital \$20,000, incorporated by Fred W. Kinsey, R. C. Patrick and others.

Tenn., Knoxville—Leslie Candy Co., lately noted, incorporated with \$10,000 capital, will erect 32x70 ft. addition to candy manufacturing plant; install machinery; equipment purchased.

Tenn., Knoxville—Knoxville Baking Co., capital \$10,000, incorporated by R. A. Henderson, C. W. Parker and others.

Tenn., Maryville—The Planters Warehouse Co., capital \$50,000, incorporated by John H. Mitchell, J. H. Staley and others.

Tenn., Memphis—Herb Juice Medicine Co., increased capital from \$200,000 to \$500,000.

Tenn., Memphis—Standard Chemical Products Co., capital \$100,000, incorporated with David Lee, Pres.; has taken over plants of Fowler Chemical Co. and the Memphis Sanitary Products Co., will manufacture polish, floor sweeps, and commercial chemicals.

Tenn., Memphis—Warnocks, Inc., capital \$15,000, chartered by E. T. Warnock, D. W. Hoke, and others.

Tenn., Milan—Milan Improvement Association will erect building for cigar plant; brick; 60x130 ft.; 2 stories and basement; estimated cost \$45,000. (Lately noted.)

Tenn., Murfreesboro—Union Transfer Co., capital \$10,000, incorporated by G. S. Smith, H. Grady Miller and others.

Tenn., Nashville—Nashville Pulp & Paper Co. reported to have begun construction of \$1,000,000 paper mill in connection with \$1,000,000 pulp mill; have purchased steel and machinery.

Tenn., Nashville—Bon Air Chemical Co. has taken over the chemical end of the Bon Air Coal & Iron Corp., according to Wm. J. Cummins, V. P. and Gen. Mgr. Bon Air Chemical Co., who states: We expect to take over the Collinwood properties, consisting of the Tennessee Charcoal Iron Co. and the Wayne Wood Products Co.; they will be under control of Bon Air Chemical Co., capital \$5,000,000 preferred and \$5,000,000 common, all owned by Bon Air Coal & Iron Corp.; when these transfers are made we will have a capacity of 400 to 500 cords of hardwood daily, to put through retorts of these two plants and convert into wood alcohol, acetate of lime, charcoal, flotation oils, pitch and other tar derivatives. Work of rehabilitating the Collinwood plants when deemed will be supervised by E. B. Rawn, Chf. Engr.

Tenn., Tracy City—P. T. Bond, of Wiggins, Miss., has secured an option on newspaper and printing plant; will probably establish publishing plant.

Tenn., Tiptonville—Tiptonville Publishing Co., incorporated by A. E. Markham, John C. Jackson and others.

Tenn., Tullahoma—Tennessee Glove Co., lately noted incorporated with \$50,000 capital, C. R. Crouch, Pres.; will erect plant for the manufacture of men's work gloves; daily output 400 doz. prs.; building will be 50x100 ft.; 1 story; frame, iron clad and metal roof; will install machines and equipment.

Tex., Amarillo—Amarillo Globe Publishing Co., D. Miller, Treas., 108 E. Fifth St., lately noted incorporated with \$20,000 capital, has

newspaper plant and is receiving bids for matrix rolling machine.

Tex., Arlington—Dr. H. D. Barnes, Ralph Higgs and associates have acquired the Arlington Journal and will operate.

Tex., Asherton—LaGuna Dairy Co., incorporated by R. S. Conley, E. A. Leonard and others.

Tex., Dallas—Maple Terrace Apartment Co., capital \$250,000, incorporated by J. H. McDonough, J. B. Rucker and others.

Tex., Fort Worth—American Bakery, incorporated by D. L. Kelly, Charles Bogam and others.

Tex., Greenville—Weather Cream Co., capital \$16,000, incorporated by H. T. Weathers, Ida Weathers and others.

Tex., Houston—Magnolia Orange Mill Co., capital \$20,000, incorporated by Murray H. Davis, W. F. Reynolds and others.

Tex., Houston—Court House Orange Mill Co., incorporated by W. F. Reynolds, Murray H. Vavis and others.

Tex., Houston—F. B. Hubbard Construction Co. awarded contract at \$35,000 for construction of 1 story, reinforced concrete laundry building for R. L. Autrey at 8th St. and Buffalo Bayou.

Tex., Lufkin—Angelina Building Co., capital \$55,000, incorporated by N. D. Shandes, A. D. Walker and others.

Tex., San Antonio—Metropolitan Cleaners & Dyers, Inc., capital \$17,000, incorporated by George Anthony, H. G. Williams and others.

Tex., San Antonio—Contracting—Kelwood Co., capital \$15,000, incorporated by Robt. B. Keller, B. Wood and others.

Tex., San Antonio—The Terrell Bartlett Engineers, Inc., capital \$25,000, chartered by Terrell Bartlett, J. S. Fenner and others.

Tex., Wichita Falls—Bright Ice Cream Co., incorporated by W. R. Alexander, E. C. Stuart and others.

Va., Christianburg—Economy Construction Co., incorporated with C. W. Surface, Pres.; A. T. M. Rust, Sec.

Va., Lynchburg—Chamber of Commerce is interested in erection of factory building; 3 stories; 55,000 sq. ft.; electric elevator; sprinkler system; daylight construction; cost \$110,000.

Va., Waynesboro—Chas. W. Smith Press, Inc., capital \$10,000, chartered with Chas. W. Smith, Pres.; J. H. Tilley, Sec.

Va., Waynesboro—Shenandoah Inn, chartered with Gertrude McCabe Waite, Pres.; J. Herbert Waite, Sec.

W. Va., Bluefield—McDowell Armature & Winding Co., capital \$25,000, incorporated Smith, D. H. Kelly and others.

W. Va., Huntington—D. D. Holtz Co., capital \$10,000, incorporated by D. D. Holtz, B. F. Becker and others.

W. Va., Keystone—Central Drug Co., capital \$10,000, incorporated by R. W. Newton, J. A. Lay and others.

W. Va., Wheeling—Herman M. Blum acquired Beckendorf Bakery.

W. Va., Wheeling—Kabiltzer Packing Co., 4128 Water St., Geo. N. Kabiltzer, Pres., will erect \$150,000 addition to cold storage building; 100x100 ft.; 6 stories; concrete floor and concrete roof; daily output 600 hogs; will install elevators; brine system, etc.; cost of equipment \$50,000; will begin construction work about May 1st. (Lately noted.)

W. Va., Weirton—Barr and McMillan, capital \$25,000, incorporated by W. B. Barr, Harry McMillan and others.

Motor Cars, Garages, Tires, Etc.

D. C., Washington—Excelsior Henderson Sales Co., capital \$22,000, incorporated by Ivan H. Johnson, Harry H. Hoke, Jr., and others.

Ky., Orinoco—Belfrey Buick Motor Co., incorporated by Dr. W. J. Smith, J. M. Wagoner and others.

Miss., Richton—McCormick Motor Car Co. increased capital to \$50,000.

Md., Cheltenham—Elcar Sales Co., capital \$150,000, incorporated by P. F. Tippet of Cheltenham, A. B. Richardson, Silver Hill, Md., and others.

Mo., Kansas City—Automobile Accessories—Beach Wittmann Co., 1820 McLee St., capital \$60,000, incorporated by G. F. Beach, M. E. Way and others.

Mo., St. Louis—Automobiles—Champion Body Co., capital \$20,000, incorporated by G. R. Smith, B. M. Fleishman and others.

Miss., Meridian—Universal Motor Co., capital \$50,000, incorporated by Walter G. Hodges, Sam T. Watts and others.

Mo., Kansas City—B. Levitch let contract to G. O. Klement to erect 1 story factory building at 2211 Campbell St., brick construction, concrete floors, containing about 12,000 sq. ft. floor space; estimated cost \$20,000; will manufacture, repair and re-finish motor car bodies.

Mo., St. Louis—Mt. Pleasant Filling Station, 4656 Minnesota avenue, capital \$15,000, incorporated by A. E. Meyer, 5510 Idaho avenue, Otto George, 4702 Minnesota avenue, and others.

Mo., St. Louis—Associated Filling Stations, 4460 Hunt Ave., incorporated by M. Carpenter, 5316 Pershing Ave.; J. M. Meinhardt, 2700 Hebert St., and others.

Mo., St. Louis—Automobile Accessories—Keep Klean Kover Co., 4329 N. 20th St., capital \$13,000, incorporated by A. L. and E. L. Fuchs and others.

Mo., St. Louis—Holthaus Automotive Corp., capital \$100,000, chartered by Max F. Ruler, E. J. Brennan, 620 Rialto Bldg., and others.

N. C., Asheville—Sawyer Motor Co., Church St., has acquired 100x150 ft. site at the intersection of Cox and Phillips Co., building to be 2 story, reinforced concrete construction, fireproof; estimated cost \$100,000.

N. C., Gastonia—The Hicks-Lambeth Co. has acquired site on East Main street; reported as having plans to erect automobile sales station.

N. C., Shelby—Clyde R. Hoey has acquired building on S. Washington St., will remodel for automobile display rooms, etc.

N. C., Goldsboro—Highway Motor Transfer Co., capital \$25,000, incorporated by H. G. Bales, H. L. Hofmeister and others.

N. C., Weldon—Bounds Motor Co. let contract to R. L. Graveley, Whitakers, N. C., to erect 1-story garage building, brick, steel roof framing, Johns-Manville roof, metal ceiling; estimated cost \$20,000.

Okla., Bartlesville—Auto Sales Room & Garage, J. H. Shertzger, Owner, will erect 1 story, 50 x 150-ft. building, brick, stone and terra cotta construction; composition roof, steel trusses, cement floor in garage and terrazzo floor in show room; pine trim, beams and lintels; gas heating; plate glass; ventilators, etc.; Robert Runkles, Archt.

Okla., Oklahoma City—Jack Gill will erect brick garage building at 29 east Fifth St., estimated cost \$25,000.

Okla., Tulsa—Adams Motor Co. will occupy building at Fifth and Detroit Sts., brick and stone construction, concrete floors and footings, roof supported by steel trusses and

columns; structure is being built by the Gallais estate under the supervision of the William D. Barry Construction Co.; Edmund E. Wells, Archt.

Okla., Tulsa—Auto Wheel & Body Works let contract to G. D. Morrow & Co. to erect 1-story, 50x140 ft. brick building for blacksmith shop and factory to manufacture and repair auto wheels and bodies.

S. C., Conway—Stonewall Service Station, Route No. 1, H. C. McInnall, Mgr., let contract to Ed. James to erect 30 x 80-ft. building, brick, cement and wood construction, cement and wood floors, metal roof; estimated cost \$1500; install \$3500 equipment, including tanks, pumps, etc.; bids open; desirous of purchasing second-hand cash register either McCaskey Acct. or National. Lately noted. (See Machinery Wanted—Cash Register; Tanks, etc.)

S. C., Spartanburg—Garage, etc.—Ernest Burwell, Inc., capital \$50,000, chartered by Ernest and Faith C. Burwell.

Tex., Brenham—Garage—Wm. Zelss will erect garage building on E. Main St., estimated cost \$10,000.

Tex., Galveston—Garage, etc.—Pierce-Fordyce Oil Co., has acquired site at 16th and Avenue A., will erect warehouse, garage and two tanks of 18,000 gal. capacity.

Tex., Lufkin—Garage—Hopper & Wells, capital \$10,000, incorporated by J. F. Hopper, H. H. Wells and others.

Tex., Plainview—Garage—Patton & Wells will occupy garage and filling station to be erected by J. N. Jordan and John Mathes, Owners, building to be 56 x 130-ft., containing about 7280 sq. ft. floor space, brick construction, concrete floors, plate glass front, two way drive entrance.

Tex., Ranger—Gallahorn Brothers, incorporated by J. T. Gallahorn, J. D. McLean and others.

Tex., Robstown—Garage, etc.—Reed Automobile Co., Bryan Nichols, Mgr., let contract for the construction of garage building on 4th. and Main Ave., faced brick with reinforced concrete walls, and floors, 50 x 140-ft. with a 40 x 40-ft. wing on rear; also erect 2 way drive-in filling station.

Tex., San Antonio—Filling Station—Witherspoon Oil Co., Frost Bldg., contemplate erecting 2 story building corner N. Alamo and Sixth Sts., used as filling station, with offices on second floor.

Tex., San Antonio—Garage—Dr. H. H. Ogilvie let contract to Jay DePuy, Beidell Bldg., to erect 5 story and basement on Alamo St., brick and concrete construction, fireproof; estimated cost \$104,425; Adams & Adams, Archts., Gibbs Bldg.

Tex., Yoakum—Swenson Motor Co. will erect 1-story garage building, reinforced concrete construction, estimated cost \$10,000; P. G. Silber & Co., Archt., Beidell Bldg., San Antonio, Tex.

Va., Pulaski—Umberger Brothers, Inc., capital \$25,000, chartered with Harry Umberger, Pres.; Maud Umberger, Sec.

Va., Richmond—The Emrick-Chevrolet Sales Corp., will occupy automobile sales building to be erected by Conrad Gross at Brook Ave., Adams and Marshall Sts.; building to be 3 story and basement, fireproof construction, will have 178-ft. of plate glass show windows, install elevators, dumb waiters, etc.; H. T. Barnham, Archt., Richmond; following are list of bidders: E. L. Bass & Bros., W. L. Ragland & Son., Ben Pillow, J. C. Beazley Co. and W. P. Thurston.

Va., Richmond—Virginia Auburn Co., capital \$15,000, incorporated with W. E. White, Pres.; C. L. Temple, Sec.

Va., Waynesboro—Wayne Motor Sales Co., capital \$100,000, incorporated with R. Brown, Pres.; P. W. Freed, Sec.

Railways

Ala., Opelika—Central of Georgia Railway Co. has applied to the Interstate Commerce Commission for authority to build a line from Opelika to Sterrett's, Ala., about 48 mi. C. K. Lawrence, Savannah, Ga., is Ch. Engr.

Fla., Rio—Rio Lumber Co., T. H. Banes, Fort Pierce, Fla., Gen. Mgr., proposes to build 14 mi. lumber railroad from Rio westward.

Fla., St. Petersburg—L. A. Whitney, of St. Petersburg, and others are reported planning construction of a railroad from St. Petersburg to Tallahassee, Fla., about 235 mi. Survey to begin soon. Others interested are Dr. M. D. Kelly, of Milwaukee, Wis.; Grosvenor Dawe, of Tallahassee; and W. L. Lewis, of Orlando, Fla. The Franklin Company, interested in development work, and of which Dr. Kelly and Mr. Dawe are officers, is said to be back of the plan.

Miss., Kiln—Edward Hines Lumber Co., will build line from Kiln to Pass Christian, Miss., 14 mi. Right of way obtained.

N. C., Lenoir—Construction of a 40 mi. extension of the Norfolk & Western Railway from Bowie, N. C., via Deep Gap to Lenoir, is under consideration with a view to developing timber lands of the Elk Creek Lumber Co., represented by H. S. Janes of New York. H. L. Daw, Div. Fht. Agt., Norfolk & Western Ry., Roanoke, Va., may be able to give information.

Railway Shops, Terminals, Round-houses, Etc.

Tenn., Memphis—Union Railway Co., K. G. Williams, Resident Engr., 839 Rayner St., will rebuild by Company's forces, burned portion of engine house, 90x60-ft., 4 stall building, mill construction, concrete floors, composition roof, estimated cost \$18,000. (Lately noted burned at loss of \$30,000.)

Va., Norfolk—Pennsylvania Railroad System, C. S. Krick, V.-P., Philadelphia, Pa., has acquired land in the vicinity of the mouth of Little Creek, on south shore along the Chesapeake Bay and propose constructing a deep-water artificial harbor, with an artificial channel to the bay, also suitable yard and terminal track facilities for handling cars to and from boats and barges; will effect entrance into Norfolk by trackage rights over railroads already serving city, with constructions of necessary connections, will make some improvements to freight house, tracks, etc., at our St. Julian Ave. yard in Norfolk; will transfer gradually freight car movement from present southern terminal at Port Norfolk to the proposed new terminal at Little Creek, also contemplate abandoning present freight station at Brook Ave., handling less than car load traffic at St. Julian Station, while car load freight will be handled in connection with Norfolk and Portsmouth belt line which will deliver cars through Little Creek instead of Port Norfolk, reducing present distance of water haul from 36 to 25 miles, also decreasing towing; are preparing plans and estimates, and construction will begin as soon as funds are available.

Road and Street Construction

Ala., Birmingham—City plans expending \$46,000 for street and sewer improvements; pave and improve 8th St. from 6th to 10th Aves.; 8th Court from 8th to 10th Sts.; install sanitary sewers in South Highland addition to East Lake. Address City Comm.

Ala., Fairfield—City let contract to Independent Paving Co., Birmingham, Ala., at \$30,000 for paving 15 blocks of Parkway; Melford W. Pratt, Mayor.

Ala., Gadsden—City plans laying concrete sidewalks, curbs and gutters on Bay, Reynolds, N. 3rd Sts. and Lamar and Ewing Aves.; total cost \$17,500. Address the Mayor.

Ala., Mobile—City Commrs., let contract to Pritchard-Raines-Hazelhurst Co., Savannah, Ga., at \$136,032.90 to pave with sheet asphalt, Broad St. from Texas to Baltimore, and Washington Ave. from Baltimore to Louisville & Nashville crossing; also plan improving following streets: Catherine, Reed, Monterey, Houston, Common, etc.

Ala., Mobile—City let contracts to Morgan-Hill Paving Co., Birmingham, at \$124,418.94, for asphaltic concrete paving, and to Hancock Brothers, Mobile, at \$68,149.42, for one course concrete paving.

Ala., Montgomery—Montgomery County Board of Revenue will receive bids until March 24 to pave extension of S. Perry St.; Thos. H. Edwards, County Engr.

Ala., Moulton—State Highway Comm., Montgomery, Ala., let contract to McQuary Brothers, Albany, at \$114,591.97 for about 6 mi. bituminous macadam between Decatur and Moulton, Lawrence county.

Ala., Parrish—City plans grading and paving Main St. Address The Mayor.

Ala., Tuscaloosa — Tuscaloosa County Board of Review plans 4 paved highways from Tuscaloosa to borders of 4 adjoining counties; contemplates voting May 13 on \$575,000 bonds.

D. C., Washington—District Commrs. will receive bids until March 14 to grade street; plans, etc., on file.

Fla., New Smyrna—City plans paving Canal St.; contemplates installing lighting system in business district. Address The Mayor.

Fla., Miami Beach—City will receive bids until March 21 to improve following road, avenues and streets, etc.: Lincoln Road and Meridian Ave.; 61,000 sq. yd. penetration pavement; 10,000 cu. yd. grading; 25,000 ft. curb and gutter; 54 catch basins; Collins Ave., Miami Beach Drive, 29th, 2nd, 22nd, 21st, 3rd, 4th, 6th, 7th, 8th, 9th, 10th, 12th, 13th and 14th Sts.; 39,000 sq. yd. penetration pavement; 5000 cu. yd. grading; 18,900 ft. curb and gutter; 14 catch basins; Alleys in Blocks 51 and 52, and between Ocean Drive and Collins Ave.; 14,000 sq. yd. 6-in. rock, with surface treatment; 1000 cu. yd. grading; F. H. Wharton, City Mgr.

Fla., Moore Haven—Glades County plans road building; will vote April 15 on \$277,000 bonds; N. S. Wainwright, Clk. of Court. (Lately noted to vote.)

Fla., Tampa—City plans municipal improvements as follows: Open, widen, pave streets and parkways; construct viaduct on Lafayette St. at Seaboard Air Line tracks; build bridge; auditorium; public wharves and sheds; establish parks; install sanitary and storm sewers; improve fire alarm system; construct incinerator and extend existing seawall; will vote April 22 on \$2,945,000 bonds; Perry C. Wall, Mayor. (Lately noted.)

Fla., Tampa—Details under Land Developments.

Fla., St. Petersburg—City plans street paving, etc.; will vote May 20 on \$335,000 bonds; R. E. Ludwig, Director of Public Utilities. (Lately noted.)

Fla., St. Petersburg—City let contract to Georgia Construction Co., Columbus, Ga., to widen 4th St. between 1st and 2nd Aves.

Ga., Columbus—City will receive bids until April 1 to pave Talbot Ave. between 7th and 12th Aves.; Walter A. Richards, City Mgr. (Lately noted bids until March 4.)

Georgia—State Highway Dept., Atlanta, let contracts for 3 road projects as follows: Wayne-Glynn Counties, grade 8.14 mi. Jesup-Brunswick road, to Cave-Andrews Co., Americus, at \$39,436.80; Lumpkin County, 6.832 mi. waterbound on Cleveland-Blairsville road, to John H. Moore, Dahlonega, at \$47,824.73; Colquitt County, 3.576 mi. pebble surface on Moultrie-Camilla road; to Cave-Andrews Co., at \$27,975.95; also to Savage & Amls, Newman, at \$9840.27 for bridge on this road; Laurens County, vitrified brick paving at bridge No. 1, F. A. Turkey Creek and concrete bridge over Buds No. 365; approaches to bridge over Oconee River, brick paving, to C. E. Story, Augusta, at \$8033.26.

Ky., Ashland—City will receive bids until March 18 to grade and pave with brick, bituminous macadam, concrete, on Kentucky Blvd. from Blackburn St. to South Side of Spring Drive; Spring Drive from Terrace Blvd. to Peach Tree road; Peach Tree road from Spring Drive to Old Orchard Drive; Old Orchard Drive from Terrace Blvd. to Peach Tree road; 3297 cu. yds. grading; 6,098 sq. yds. paving; 5145 lin. ft. curb and gutters; 3 manholes; 9 inlets; 1028 lin. ft. 1- and 12-in. sewer pipe; plans, etc., from City Engr.; H. L. Carroll, City Clk.

Ky., Dixon—State Highway Comm., Frankfort, will receive bids until April 7 to improve 19.220 mi. Hendersonville-Madisonville road, from Henderson County line to Hopkins County line, exclusive of Dixon; construct drainage structures and surface to width of 18 ft. with bank gravel unrolled, waterbound macadam, or waterbound macadam surface treated; plans, etc., from Div. Headquarters, at Paducah, and at Court House at Dixon; Joe S. Boggs, State Highway Engr.

Ky., Owensboro—Davies Fiscal Court plans hard surfacing 1200 ft. west end of Griffith Ave., from end of improved highway west to Bosley road. Address County Judge McFarland.

La., Arcadia—Blenville Parish plans building 19 mi. highway to connect with Lincoln, Claiborne and other parish highways in North Louisiana; plans voting in April on \$100,000 bonds. Address Parish Police Jury.

La., Baton Rouge—Details under Land Developments.

La., Homer—Claiborne Parish plans 90 mi. hard surfaced roads; contemplates \$750,000 bond issue. Address Parish Police Jury.

La., Leesville—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, will receive bids until April 3 for 8 mi. gravel Leesville-Alexandria Highway, from Slage east; Vernon Parish State Project 337-C; plans, etc., on file; J. M. Fourmy, State Highway Engr.

Md., Baltimore—Board of Awards will receive bids until March 19 to grade and pave with cement concrete alleys in Alley Cont. No. 108; plans, etc., on file; Mayor Howard W. Jackson, Pres.; Bernard L. Crozier, Highways Engr.

Md., Baltimore—Board of Awards will re-

ceive bids until March 19 to grade Curtain St. from Aiken to Alsquith and Alsquith from Curtain to 250-ft. south; 4000 cu. yds. grading; Grading Contr. No. 252-0A; plans, etc., from Const. Engr.; Stuart Purcell, Ch. Engr.; Mayor Howard W. Jackson, Pres. Board of Awards.

Md., Frostburg—City plans street improvement; will vote April 1 on \$25,000 bonds. Address The Mayor. (Lately noted.)

Miss., McComb—City let contract to Woodruff & Powers, McComb, for 18 blocks concrete sidewalks as follows: 7200 lin. ft., approximately 4000 sq. yds; plans laying about 12 to 15 mi. additional sidewalks. Address The Mayor.

Missouri—State Highway Dept., Jefferson City, will receive bids until March 21, for eleven road projects as follows: State Project Route 28, Sec. 6, Maries County, 2 sections; 4.924 mi. 12-ft. gravel surfacing, from Vienna to Dixon, 35,309 sq. yd. gravel surfacing; 15,810 cu. yd. earth excavation; Route 28, Sec. 7, 2.04 mi. 12-ft. gravel surfacing, from Vienna to Dixon; 14,570 sq. yd. gravel surfacing; 6,127 cu. yd. earth excavation; Route 45, Montgomery County, 4 mi. from Montgomery City north; Route 41, Sec. 5, Saline County, .72 mi. 26-ft. graded earth, from Marshall to Miami, 49,073 cu. yd. earth excavation; Federal and State Project No. 54, Gentry County, 4.308 mi. 16-ft. penetration macadam surfacing, from King City north; Route 15, Sec. 26, Stoddard County, 1.719 mi. 16-ft. gravel surfacing, from Advance north, 16,136 sq. yd. gravel surfacing; 13,070 cu. yd. earth excavation; Route 16, Sec. 39, Wright County, 3 mi. 26-ft. graded earth, from Mansfield north; Pulaski County, 2 sections, from Crocker north; Route 17, Sec. 11, 4.334 mi. 26-ft. graded earth, 24,100 cu. yd. graded earth; Sec. 12, 2.205 mi. 12-ft. gravel surfacing; McDonald County, 2 sections, from Anderson south; Route 1, Sec. 111, 2.335 mi. 26-ft. graded earth, 32,047 cu. yd. earth excavation; Sec. 112, 5 mi. 26-ft. graded earth; B. H. Piepmeyer, Ch. Engr.

Missouri—State Highway Dept., Jefferson City, will receive bids until March 21 for 15 road projects as follows: Route 29, Sec. 2-Worth County, 3.579 mi. 30-ft. graded earth from Grant City north and south; 44,554 cu. yd. graded earth; Route 6, Sec. 33A, Sullivan County, 2.062 mi. 16-ft. gravel from Milan east; 19,436 sq. yd. paving; Route 47, Sec. 3-Lincoln County, 2.670 mi. 16-ft. gravel from Troy west; 3,897 cu. yd. gravel; 25,066 sq. yd. paving; Route 24, Sec. 31-Benton County, 3.161 mi. 30-ft. graded earth; from Cole Camp, west; 20,981 cu. yd. graded earth; Route 15, Sec. 56A-Miller City, 4.992 mi. 12-ft. gravel from Eldon east; 35,148 sq. yd. paving; Route 25, Sec. 3A-Jefferson County, .949 mi. 16-ft. gravel from Festus south; 8,907 sq. yd. paving; Route 25, Sec. 4A-St. Genevieve County, .872 mi. 16-ft. gravel from Bloomsdale north; 7975 sq. yd. paving.

Route 3, Sec. 95-Green County, 1.970 mi. 18-ft. concrete from Springfield south; 20,800 sq. yd. paving; Wright County, 2 sections; Route 16, Sec. 38, 3.501 mi. 26-ft. graded earth, from Mansfield west; Sec. 39, 2.614 mi. 26-ft. graded earth from Mansfield east; Stoddard County, 2 sections; Route 51, Sec. 26, 1.719 mi. 16-ft. gravel from Advance north; 16,136 sq. yd. paving; Route 211-B, 3.230 mi. 16-ft. gravel and 40-ft. concrete from Bernie south, 30,402 sq. yd. grading; 2,281 sq. yd. concrete; Route 55, Sec. 5-Scott County, 3.771 mi. 16-ft. gravel from Diehlstadt north; 11,769 sq. yd. paving; Nodaway County, 2 sections from Maryville south; Route 245-A, 5 mi. 18-ft. concrete, 52,799 sq. yd. paving; Route 245-B,

4.890 mi. 18-ft. concrete, 51,640 sq. yd. paving; B. H. Piepmeyer, State Highway Engr.

Missouri—State Highway Dept., Jefferson City, received low bids for 2 road projects as follows: Monroe County, 2 sections from Paris to Shelby; State Project, Route 15, Sec. 26, 3.314 mi. 16-ft. gravel surface, from Farrell & Dubouillet, Linn, Mo., at \$40,747.04; Route 15, Sec. 27, 2.09 mi. 16-ft. gravel surface, from Kiefner & Gelle, Perryville, Mo., at \$20,670.64.

Mo., Maryville—State Highway Dept., Jefferson City, will receive bids until March 21 for 5 mi. earthwork from Maryville south; 48,968 cu. yd. earth excavation; 128 cu. yd. concrete in culverts; B. H. Piepmeyer, Ch. Engr.

Mo., Nevada—City will receive bids probably in 2 weeks to pave South College Ave.; John Clack, City Engr.

Mo., Springfield—City plans paving Chase St. from Lyon to Broadway. Address The Mayor.

N. C., Asheville—Details under Land Developments.

N. C., Benson—Town will receive bids until April 2 for street improvement, as follows: 40,000 sq. yd. sheet asphalt, bitulithic, or other bituminous pavement, on cement concrete foundation; combined concrete curb and gutter; granite curbing with concrete gutter; storm drainage, etc.; plans, etc., from Wm. C. Olsen, Const.-Engr., Raleigh, N. C.

N. C., Charlotte—City plans extending E 8th St., 396 ft. from Clement to Pecan Ave.; W. S. Stancil, Commr.

N. C., Charlotte—Board of Commrs. will receive bids until March 18 for 45,000 sq. yd. walks and 211,000 sq. yd. paving; various types; plans, etc., from Joseph Firth, City Engr.

N. C., Cherryville—Town will receive bids until April 4 for 60,000 yds. paving; plans, etc., after March 15, from Carolina Engineering Co., Engr., Wilmington, N. C.; G. H. Bishop, Const. Engr.

N. C., High Point—Details under Land Developments.

N. C., Maxton—Board of Aldermen receives bids until March 13 to pave and improve certain streets as follows: 2400 cu. yd. excavation and grading; 8000 sq. yd. plain cement concrete, reinforced cement concrete, sheet asphalt, bitulithic or asphaltic concrete pavement on 5-in. Portland cement concrete base; 1600 lin. ft. combination concrete curb and gutter; also storm drains and accessories; plans, etc., from A. J. Steed, Clk. and Treas., Maxton and Mees & Mees, Const. Engrs., Charlotte, N. C.

N. C., Salisbury—D. K. Ceell's Sons, Lexington, N. C., was awarded contract at \$12,000 to grade and build 2000 ft. State Highway on Rowan County side of concrete bridge spanning Yadkin River at Spencer.

N. C., Statesville—Board of County Commrs. will receive bids until March 14 for 4 mi. road from Mooresville toward Statesville, to Rowan County line, also branch of same road toward Landis to Rowan County line; sheet asphalt, bituminous concrete, Portland cement concrete, or any other type of pavement; plans, etc., from A. E. Taplin, Const. Engr., High Point, N. C.

Okla., Chickasha—City let contract to General Contracting Co., Oklahoma City, at \$11,380.50 to pave 8 blocks on Kansas Ave., Paving Dist. No. 28.

Okla., Comanche—City will let contract

soon for 2 paving projects. Address The Mayor.

Okla., Holdenville—City plans paving 2 blocks on South St. Address The Mayor.

Okla., Norman—City let contract to Yates Construction Co., Ada, Okla., at \$48,771.50 for 7 blocks of concrete paving on Monnett St. from North University to Flood St.

Okla., Norman—State Highway Comm., Oklahoma City, let contract to Gudge & McVay, Stillwater, at \$15,008.40 for 1.29 mi. concrete pavement and drainage structures, north from New Castle Bridge; Federal Aid Project 115, Sec. A.

Okla., Pawhuska—Osage County let contract to Tibbets & Pleasant, Tulsa, at \$30,622.48 for 1 mi. paved road between Sections 28 and 34, Township 20, North Range, 12 East, Newton St. in Lombard Addition to City of Tulsa, being part.

Okla., Sapulpa—Creek County, will receive bids about July 1 for 63 mi. hard surfaced roads; cost \$700,000; C. K. Howard, County Engr.

Okla., Tulsa—City let contracts at \$399,810.85 for paving in 20 residence districts as follows: Standard Paving Co., San Antonio, Tex., at \$184,400, in 5 districts; H. L. Canady Co., at \$51,120, in 3 districts; Ward Paving Co., at \$48,700 5 districts; Western Construction Co., Oklahoma City, Okla., at \$19,300, for 3 contracts; Tibbets & Pleasant, Tulsa, at \$77,904, to pave 11th St. from Elgin to Peoria Ave., with 56-ft. pavement.

S. C., Aiken—Aiken County plans building hard surfaced road from Aiken to Savannah River at Augusta; contemplates \$300,000 bond issue. Address County Commrs.

S. C., Anderson—City plans curbing, draining and top-solling various streets; contemplates \$50,000 to \$75,000 bond issue; G. Cullen Sullivan, Attorney.

S. C., Bishopville—Lee County Commrs. will receive bids until March 18 for 2 sections of roads as follows: Federal Aid Project No. 67 C, 2.618 mi. State Route No. 34 from city limits of Bishopville toward Darlington, to Survey Station 138-25; 44,206 cu. yd. common excavation; 6110 cu. yd. sand-clay surfacing; Project No. 238, 10.527 mi. State Route No. 42, from city limits of Bishopville toward Sumter, to Lee-Sumter County line; 57,600 cu. yd. common excavation; 25,821 cu. yd. sand-clay surfacing; 20,571 lbs. reinforcing steel; also for reinforced concrete bridge on State Route No. 42, Project No. 238; eight 22-ft. spans; 45,060 lbs. reinforcing steel; plans, etc., from J. M. Martin, Div. Engr., Florence, S. C., and State Highway Engr., Columbia, S. C.

S. C., Denmark—City plans municipal improvements; will vote March 18 on \$66,000 bonds as follows: Paving, \$33,000; sewer, \$33,000; Ryan Engineering Co., Engrs., Columbia, S. C.

S. C., Edgefield—Edgefield County Highway Comm., contemplates building or completing 6 roads, totaling about 30 mi., as follows: Complete 16 mi. Dixie Highway from Edgefield to Aiken County line, on road to Augusta; 4 1/4 mi. on end of Dixie Highway next to Greenwood County line; Trenton to Johnson to Saluda County line, on Augusta road; 8 mi. Newberry road; 5 mi. Trenton to Aiken, to Aiken line; road to Edgefield to McCormick, route to be determined; B. R. Tillman, Chmn.

S. C., Lexington—State Highway Dept., Columbia, will receive bids until March 21 for 3 sections of roads in Lexington County, as follows: Federal Aid Project No. 234, Sec. A, 7.176 mi. State Route No. 1, from Orangeburg-Lexington County line to point

near Swansea, 31,314 cu. yd. common excavation; 16,703 cu. yd. sand-clay surfacing; Sec. B, 12,417 mi. from end of Section A to point on State Route No. 2, near Dixiana, 79,282 cu. yd. common excavation; 30,077 cu. yd. sand-clay surfacing; State Route No. 391, 10.441 mi. from Aiken-Lexington County line to Soluda-Lexington County line, 58,187 cu. yd. common excavation; 9782 cu. yd. sand-clay surfacing; 20,154 cu. yd. top soil surfacing; 25,371 lbs. reinforcing steel; also bridge on road from end of Section A to point near Dixiana, four 22-ft reinforced concrete spans, 22,427 lbs. reinforcing steel; plans, etc., from State Highway Engr.

S. C., Orangeburg—Orangeburg County plans road improvement; contemplates voting on \$300,000 bond. Address County Comms.

S. C., Rock Hill—City plans widening Black St. between Hampton and Trade Sts. Address The Mayor.

S. C., Spartanburg—Spartanburg County plans grading and top-soiling 9 to 10 mi. road from National Highway to Greenville, through Poplar Springs to Cashville; H. B. Humbert, County Highway Engr.

S. C., Walhalla—City plans paving Main St.; voted \$50,000 bonds. Address The Mayor.

Tenn., Dresden—Weakley County plans grading 7 highways, totaling about 138 mi. as follows: From center of County to Lynnpont via Greenfield; from Dresden to Ohio line, through Martin and Gardner; from Dresden to Boydsville, via Palmersville; from Dresden to Dukedom, via Latham; Burlington Highway, through Martin, Hillside, Sharon and Greenfield, to Gibson County line on south; from Greenfield to McKenzie; from Gleason to Como. Address State Highway Engr. Turner.

Tenn., Greeneville—Greene County plans resurfacing pike road in County; will vote May 3 on \$200,000 bonds. Address County Comms.

Tex., Albany—Shackelford County plans building hard surfaced road from Stephens County line, via Albany, to Taylor County line, on Abilene road; voted \$500,000 bonds; Richard Dyess, County Judge.

Tex., Amarillo—Ch. Engr., U. S. Bureau of Public Works, Washington, D. C., approved plan for 6.06 mi. State Highway No. 33 from Amarillo to Carson County line, estimated cost \$76,536.29; federal aid \$20,000; O. A. Seward, County Engr., Sam B. Motlow, County Judge.

Tex., Anson—Jones County, Road Dist. No. 188 plans building hard surfaced road across County, east and west; voted \$200,000 bonds; J. L. Lindsay, County Judge.

Tex., Austin—Travis County plans 14 mi. Middlebush Highway from intersection with State Highway No. 2 south to Creedmore, to Caldwell County line; gravel surface, 16-ft. wide, 4-in. thick; bituminous topping; estimated cost \$96,000; O. Leonard, County Engr.; Geo. S. Mathews, County Judge.

Tex., Austin—Travis County Comms. Court will receive bids until March 29 to improve 11 mi. Manchaca road; \$63,64 cu. yd. 1:2:4 concrete; 55,358 lbs. reinforcing steel; plans, etc., from Geo. S. Matthews, County Judge.

Tex., Beaumont—Jefferson County let contract to Smith Brothers, Dallas, at \$204,755.95 for 7.35 mi. 7-ft. reinforced concrete Voth road, from Treadway Canal toward Voth, to Hardin County line.

Tex., Carrizo Springs—Dimmitt County plans 50 mi. caliche and gravel surfaced road on State Highway No. 85, Dilley-Eagle Pass road, from Frio County line to Mav-

erick County line; estimated cost \$418,000; J. G. Lott, County Engr.; Wm. H. Davis, County Judge.

Tex., Corsicana—Navarro County will receive bids until March 22 to build and improve 5 mi. Road Dist. No. 15, between Streetman and Winkler; 17,900 cu. yd. excavation; two 12-ft. and two 16-ft. timber bridges complete; plans, etc., from A. P. Mays, County Judge; County Comms., Ruben Milligan, Richland, Tex.

Tex., Daingerfield—Morris County Comms., Court let contract to Womack Construction Co., Sherman and Houston, to improve 5.08 mi. Highway No. 35.

Tex., Dallas—City plans gravel surfacing S. Harwood St., between Peabody and Pennsylvania Aves. R. A. Wylie, Street Comm.

Tex., Decatur—Wise County plans 11.09 mi. gravel surfaced road on State Highway No. 39, Bridgeport-Chico-Jacksboro road from 4 mi. south of Chico north to Chico, and west to Jack County line; estimated cost \$120,000; H. R. Smith, County Engr.; S. M. Ward, County Judge.

Tex., Glen Rose—Somervell County will receive bids until March 25 for 12.23 mi. gravel road on State Highway No. 68, from Glen Rose to Erath County line; gravel furnished by County; Henry J. Cox, County Engr.; C. Collins, County Judge. (Lately noted.)

Tex., Georgetown—Williamson County plans 7.11 mi. State Highway No. 74, from Florence to boundary line between Precinct No. 2 and 3; grade, construct concrete drainage structures and gravel surface; estimated cost \$73,000; R. A. Nichols, County Engr.; F. D. Love, County Judge.

Tex., Greenville—Hunt County will receive bids until March 25 for 4 sections of road as follows: 5.3 mi. gravel sub-base, macadam and asphalt topping, on State Highway No. 39, from Greenville to Floyd; 12 mi. local stone sub-base surfacing on Wolfe City road, from Greenville to Wolfe City; 15 mi. gravel surfacing and 6000 sq. yds. concrete surfacing on Quinlan road, from Greenville to Quinlan; 2.6 mi. grading, bridging and surfacing State Highway No. 1, Commerce-Ridgeway road; G. R. Burtner, County Engr. (Lately noted bids until Feb. 26).

Tex., Italy—City plans 15,000 to 20,000 sq. yd. street paving; approximate cost \$80,000; city paying $\frac{1}{4}$ and property owners balance; R. G. Dohoney, Mayor; Elrod Engineering Co., Engrs., Dallas, Tex.

Tex., Kaufman—Kaufman County plans improving 2 roads as follows: 6 mi. concrete paving on State Highway No. 15, west from Van Zandt County line; estimated cost \$177,000; 3.92 mi. 18-ft. concrete pavement on State Highway No. 15, east from Terrell; estimated cost \$105,000; S. J. Treadway, County Engr.; W. P. Williams, County Judge.

Tex., Leakey—W. E. Simpson Co., Engrs., San Antonio, Tex., will receive bids until April 1 to grade and construct bridges on 18 mi. Kerrville-Rock Springs road, Real County Federal Aid Project No. 407; estimated cost \$95,000.

Tex., McKinney—Collins County let contract to Tibbetts Construction Co., Mineral Wells, Tex., at \$63,500, for 2.2 mi. reinforced concrete pavement in Royce City; Federal Aid Project No. 402.

Tex., Port Arthur—Details under Land Developments.

Tex., Port Arthur—Details under Land Developments.

Tex., Richmond—Fort Bend County plans grading, constructing bridges and gravel surfacing $9\frac{1}{2}$ mi. State Highway No. 36, Rich-

mond-Brenham road; Herbert Schroeder, Engr., Belleville, Tex.; estimated cost \$150,000.

Tex., Riogrande—Starr County Comms. let contracts at \$242,000 for 2 sections of roads as follows: To W. L. Pearson Construction Co., Houston, for grading and surfacing, and W. Y. Montgomery, San Antonio, for structures from Hidalgo County line to Riogrande; to W. Y. Montgomery, for grading and surfacing, and Smith, Starky & Brown, Houston, for structures, from Riogrande to Roma.

Tex., Rock Springs—Edwards County will receive bids after May 1 to grade, construct bridges, and waterbound macadam 12 mi. State Highway No. 41; Federal Aid Project No. 430; estimated cost \$120,000; W. E. Simpson Co., Engrs., San Antonio.

Tex., Seguin—Guadalupe County plans highway improvement; macadamized, graveled or other hard paving; will vote April 3 on \$1,100,000 bonds; J. B. Williams, County Judge.

Tex., Waxahachie—Ellis County Comms. Court let contract to Eproson & Co., Groesbeck, at \$14,770.71 to grade and gravel 3.04 mi. in Palmer Dist., on State Highway No. 14, between Ennis and Palmer; to Austin Bridge Co., Dallas, Tex., at \$19,583.93 for bridges.

Va., Norfolk—City plans paving Main St.; Walter H. Taylor, 3rd, Director of Public Works.

Va., Petersburg—Details under Bridges, Culverts, Viaducts.

Va., Portsmouth—Norfolk County Road and Bridges Comn. plan building Route No. 40, State Highway, from Portsmouth to South Mills, N. C., via Craddock and Deep Creek. Address County Engr. Preston.

W. Va., Bluefield—City let contract to Murman Co., Knoxville, and Bodenhamer & Tabor, Bluefield, for 6 mi. one course concrete street paving; cost \$400,000.

W. Va., Charleston—City plans street and sewerage improvements; Address The Mayor.

W. Va., Clarksburg—Harrison County, Wilderness Dist., plans road building; will vote April 8 on \$90,000 bonds. Address County Comms.

W. Va., Fairmont—Marion County, Mannington, Lincoln and Paw Paw Dists., voted \$1,257,200 bonds to improve 28 hard surfaced roads, totaling 54.98 mi., as follows: Mannington Dist., 5 mi. 14-ft wide Buffalo; 1 mi. 9-ft. Warrior Fork; 2.7 mi. 9-ft. Bartholomew, 1.2 mi. 14-ft. Owen Daly; 5 mi. 9-ft. Whetstone; 2.4 mi. 9-ft. Dent's Run; 1.4 mi. 9-ft. Campbell's Run; 1 mi. 9-ft. State Fork; 1.4 mi. 9-ft. Flat Run; 8 mi. 9-ft. Salt Lick; 3.5 mi. 14-ft. Mannington-Clarksburg turnpike, or Flagg Meadow road; $\frac{1}{2}$ mi. 9-ft. Mud Lick; voted \$600,000 bonds; Paw Paw Dist., 14-ft. roads; 1.18 mi. Parker Run; 7 mi. Rivesville, Baxter, and Hoodsville; 2.5 mi. Baxter, Grant Town and Fairview; 1 mi. Robinson Run; .92 mi. Bennetfield Fork; 1.13 mi. Fairmont and Wheeling turnpike; voted \$324,000 bonds; Lincoln Dist., 9-ft. roads; 1.7 mi. Sec. A, Dunkard Mill or Jim Town; 1 mi. Sec. B, Fairview Pike; 2.5 mi. Plum Run; .7 mi. East Run; 4 mi. Helen's Run; 1 mi. Carolina; 1.5 mi. Teverbaugh; 1.8 mi. Bingham, .24 mi. Thoburn; .51 mi. Everson; voted \$333,200 bonds. Address County Comms.

W. Va., Huntington—Board of Comms. will receive bids until March 21 to grade, curb and pave following road and streets: Burlington Road, from Piedmont road to Kanawha and James River turnpike; Washington Drive, from James River Turnpike to city limits; Pogue St. from Norway Ave. to point 560 ft. west; 37th from 3rd Ave. to

River; 24½ St. from 8th to 9th Aves.; Locust, from Norway Ave. to corporation line; Bradley road from east end to Vinson St.; Vernon, Court, Vinson and Wayne, from Bradley road to Piedmont; plans, etc., on file and from A. B. Mauolin, City Engr.

W. Va., Huntington—Chesapeake & Ohio R. R. Co., C. W. Johns, Ch. Engr., Richmond, Va., plans building undergrade crossing at Chesapeake & Ohio tracks at 14th St.; cost \$76,000.

W. Va., Morgantown—Monongalia County Court plans hard surfacing Arnettville—Lowville-Brady road in County.

W. Va., Wheeling—City plans paving McCulloch St. and Bethany Pike. Address The Mayor.

Sewer Construction

Ala., Birmingham—Details under Road and Street Construction.

Ala., Mobile—City let contract at \$48,501.88 to Hancock Bros. of Mobile, for constructing storm sewers. (Lately noted.)

Fla., Miami Beach—City Council receives bids March 21 for following sewer construction: sanitary sewers—5000 ft. of 6" house connections, 18,000 ft. 8" sewer, 2000 ft. of 12 ft. sewer and 8800 ft. of 15" sewer, 70 manholes; storm sewers—1700 ft. of 12" sewer, 5000 ft. of 15" sewer, 500 ft. of 27" sewer, 3400 ft. of 24" sewer, 2200 ft. of 10" inlet connections, 30 manholes and 28 inlets.

Fla., Tampa—Details under Land Developments.

Fla., Tampa—Details under Road and Street Construction.

Ga., Atlanta—City Bond Commsn. voted \$100,000 appropriation to extend Lloyd Street sewer, \$65,000 to extend Orne Street sewer.

Ky., Ashland—Details under Road and Street Construction.

La., Baton Rouge—Details under Land Developments.

La., Bastrop—City plans issuing about \$75,000 for sewerage system. Address Municipal Council.

Mo., Independence—City Council let contract at \$16,796 to Charles Hamm & Co. to construct sewers in Dist. No. 87.

Mo., Sikeston—City defeated \$100,000 bond issue. Address The Mayor. (Lately noted.)

N. C., Asheville—Details under Land Developments.

N. C., Charlotte—City receives bids until March 18 for construction of 44,000 ft. of sewers on certain streets; Joseph Firth, City Engr.

N. C., Greensboro—Details under Water Works.

N. C., Maxton—Details under Road and Street Construction.

Okla., Cushing—Details under Water Works.

Okla., Lawton—City, Jno. Kennard, Mayor, will construct sewers and sewage disposal plant; H. C. Olmsted & Co., Engrs., Oklahoma City.

Okla., Norman—City let contract at \$8746 to M. R. Amerman of Wichita, Kansas, for storm sewers.

Okla., Yukon—City will expend \$17,000 for construction of outfall sewers; H. G. Olmstead & Co., Engrs., Oklahoma City.

S. C., Denmark—Details under Road and Street Construction.

Va., Portsmouth—City, J. P. Jervey, Mgr., will receive bids until March 17 to furnish and construct approximately 2445 lin. ft. of 10-in. and 6525 lin. ft. of 12-in. terra cotta pipe; 3750 lin. ft. of 15-in. and 985 lin. ft. of 18-in. double strength terra cotta pipe; 2703 lin. ft. of 22-in., 912 lin. ft. of 24-in., 989 lin. ft. of 27-in., 646 lin. ft. of 30-in., 691 lin. ft. of 36-in. double strength terra cotta or reinforced concrete pipe; 65 lin. ft. of

42-in. reinforced concrete pipe; 56 manholes; 26 catch basins; 52 inlets, together with appurtenant structures in the Washington Ward; Joseph F. Weaver, Jr., City Engr.

Va., Richmond—Allen J. Saville, Director of Public Works, let the following contracts for sewer construction; to Smith Bros. for main contract at about \$300,000; to Warner Moore & Co., at \$40,000 for segment blocks; to Lock Joint Pipe Co., East Orange, N. J., at \$90,000 for precast reinforced concrete pipe; to Starke Dixie Plow Works, 1518 E. Cary St., Richmond, at \$6020 for castings; to Eastern Brick Co., at \$15,712 for sewer brick (Lately noted.)

Telephone Systems

Ark., Russellville—Russellville Telephone Co., will rebuild plant, Ed. Jones of Little Rock, Ark. will have charge of construction.

Fla., St. Petersburg—Peninsular Telephone Co., W. G. Broelyn, Pres., reported to erect 4 story building on First Ave., installing equipment; has acquired site.

Md., Baltimore—Chesapeake & Potomac Telephone Co., G. H. Warren, Div. Mgr., 5 Light St., reported to expend \$3,802,000 allotted for expansion in the state, of which \$215,000 will be spent for new construction work, additions and extensions to the Baltimore plant; the addition include the placing of underground and aerial cable relief in the eastern section of Tuxedo and Evergreen central office districts, will involve the construction of 1½ mi. of 8-in. conduit, 15 manholes, erect 59 poles and several miles of aerial and underground cable; other construction includes additional cable in Madison Central office district, also in Wolf and Back River sections, work will probably be completed within the year.

Okla., Carnegie—Carnegie Telephone Co., J. A. Wright, Mgr., let contract to J. D. Peters to construct 30x50-ft., 2 story brick telephone building.

Tenn., Englewood—Inter-County Telephone Co., incorporated by D. D. Edgemon, W. W. Elledge and others.

Tenn., Knoxville—Peoples Telephone & Telegraph Co., J. C. Duncan, Pres. plans additional story to building on West Commerce St. preparing for the installation of automatic telephone service; the new building to be erected at Jackson and Chestnut Sts., Park City, will be brick and concrete, has equipment ready for installation; Company will issue \$300,000 bonds for development.

Textile Mills

Ala., Lanett—West Point Manufacturing Co., West Point, Ga., will erect cloth room, 75x270 ft. at Lanett Mills; J. E. Sirrine & Co., Engrs., Greenville, S. C.; Gallivan Building Co., Contrs., Greenville, S. C.

Ga., Ringgold—W. A. Nichols, 503 Baldwin St., Chattanooga, Tenn., and associates are interested in organization of company to manufacture silk hosiery; details not arranged. (Lately noted.)

Ga., Lawrenceville—Lawrenceville Mills, Lee S. Redford, Sec. Treas., branch of Barrow County Cotton Mills, Winder, Ga., will erect addition to plant; Park A. Dallis, Archt. Engr., Candler Bldg., Atlanta, Ga.; Gallivan Building Co., Greenville, S. C. are general contractors; sub contracts not let. (Lately noted.)

Ga., Thomaston—Thomaston Cotton Mills, W. T. Hightower, Pres., will erect bleachery; engineering work being done by Robert & Co., Atlanta, plans being prepared now; no contracts let.

N. C., Balfour—Balfour Mills let contract to General Electric Co., Schenectady, N. Y. for motors, transformers and switchboard; to Link Belt Co., 300 W. Pershing Rd., Chicago, Ill. for chain drives and to Bahnsen

Co., Winslow Salem, N. C., for humidifying equipment. J. E. Sirrine & Co., Engrs., Greenville, S. C. (Other contracts lately noted let.)

N. C., Lexington—Details under Land Developments.

S. C., Walhalla—W. K. Stringer of Anderson, S. C., reported to have acquired Keowee Cotton Mill.

Tenn., Knoxville—Appalachian Mills Co. increased capital from \$1,000,000 to \$1,500,000.

Tex., El Paso—El Paso Cotton Mill Co., A. P. Coles, Pres., let contract to Saco-Lowell Shops, Boston, Mass., for spinning equipment for mill; will probably purchase additional machinery, including looms and other equipment; contract for construction of mill not awarded. (Previously noted.)

W. Va., Keyser—Keyser Worsteds Mills let contract to Snider Bros. to erect addition to plant.

Water Works

Fla., Miami—City Commrs. authorized Ernest Cotton, Direct of Public Utilities to purchase materials necessary for construction of 8 mile line of redwood conduits from Hialeah to Miami; cost about \$245,000; later may install water softening plant. (Lately noted.)

Fla., Tampa—Details under Land Developments.

La., Baton Rouge—Details under Land Developments.

Miss., Magnolia—City votes March 25 on \$30,000 bonds for water works; Henry A. Mentz, Const. Engr., Magnolia.

N. C., Asheville—Details under Land Developments.

N. C., Greensboro—City let contract at \$262,000 for laying 51 miles of sewer and water pipe to Paul Howard. (Lately noted.)

N. C., Sanatorium—North Carolina Sanatorium, T. W. M. Long, M.D., Chmn., receives bids until April 2 for water works improvements, to consist of brick and concrete filter house; brick and concrete auxiliary station; concrete coagulation basin; concrete storage reservoir; steel wash water tank and tower; about 1 mile of cast iron pipe line; about 1 mile of 2200 volt transmission line; motor driven centrifugal pumps and accessories; filter plant equipment; Gilbert C. White Co., Engrs., Durham, N. C.

Okla., Cushing—City, L. A. Grenshaw, Mayor, votes March 18 on \$505,000 bonds for water and sewer system.

Okla., Holdenville—City let contract at \$64,518.12 to Votaw & Lang Holdenville, for waterworks improvements; Clarence Edge, City Engr. (Lately noted.)

Okla., Newkirk—City will extend and improve water works; construct wells, reservoir and approximately 5 miles of 10" cast iron pipe; Musso & Gayle, Engrs., Grain Exchange Bldg., Oklahoma City.

Okla., Oklahoma City—City will open bids March 18 for 300 ft. extension to city reservoir dam; Bert M. Hart, City Engr.

Texas, Austin—City, W. D. Yett, Mayor, will receive bids March 20 to construct municipal water filtration plant; proposals will be received on filter building with filtered water reservoir, mixing chamber, coagulation sedimentation basin, with appurtenances and including pipes connecting same; (2) filter equipment; (3) on No. 1 and No. 2 combined; C. E. Leonard, City Engr.; John B. Hawley, Const. Engr., 403 Cotton Exchange Bldg., Fort Worth, Tex.

Tex., Floydada—City plans installing water works; will vote March 18 on \$10,000 bonds. Address The Mayor.

Tex., Port Arthur—Details under Land Developments.

Tex., Trenton—City defeated \$33,000 bond issue. Address The Mayor.

Va., Chatham—City, Wm. M. Tredway, Clk., receives bids until March 31 to construct filtration and pumping plant for municipal water works, force main, steel tanks, oil storage, with gravity feed, etc.; work includes small dam and intake crib on Cherry-stone Creek, with raw water line, concrete pump well, combined concrete brick filter and pump station; a 10,000 gal. steel wash tank about 4100 ft. of 6-in. cast iron force main, classes B, C and D, with all necessary piping about the plant, etc.; low service centrifugal pump direct connected to motor, high service low service centrifugal pump for belt drive, centrifugal pump direct connected to motor; high service centrifugal pump for belt drive; semi Diesel fuel oil engine, with air starter outfit; all filter equipment for a 360,000 g.p.d. unit; 150,000 gal. hemispherical bottom steel tank with tower; 10,000 gal. oil tank with about 500 ft. of 2-in. gravity fed; Ambler Engineering Co., Engrs., Richmond, Va.

Woodworking Plants

Ga., Macon—Bobbins—W. P. Beall, Box 122, contemplates establishing bobbin factory; desirous of securing data and prices on equipment. (See Machinery Wanted—Bobbin Plant Equipment.)

Fla., Tampa—The Florida-West Indies Corp., W. F. Miller, Pres. (Lately noted incorporated, capital \$3,000,000), organized to develop a vast area of timber lands in Santo Domingo, and to manufacture furniture; plans call for establishing furniture manufacturing plants here.

Mo., Kansas City—Standke's Phonograph Co., 1108 Grand Ave., capital \$27,000, incorporated by Otto D. Standke, Grover Near and others.

N. C., High Point—Blue Ridge Hickory Furniture Co., capital \$100,000, incorporated by W. C. Burns, S. L. Davis and others.

Tenn., Maryville—Mary-Knox Coach Co., capital \$10,000, incorporated by A. D. Dunn, J. L. Kiser and others.

Va., Westmorland—Huntington Sash & Cabinet Co., Huntington, W. Va., B. L. Winters, Mgr., has 50x130-ft. building completed; will install 6-in. moulder, variety saw, shaper, sash trimmer, etc., to manufacture store fixtures, etc. Lately noted. (See Machinery Wanted—Woodworking Machinery.)

W. Va., Terra Alta—Terra Alta Furniture Co., capital \$25,000, incorporated by H. Paul Shafer, N. E. Shafer and others.

FIRE DAMAGE

Ala., Birmingham—North Birmingham Lumber & Coal Co.'s plant; estimated loss between \$50,000 and \$100,000.

Ala., Piedmont—W. M. Downey cafe owned by F. E. and L. G. Webb.

Ga., Atlanta—Building at 167 S. Forsythe St., occupied by Ragan Scales Co., Merchants Towel Co., Milton Bradley Co.; estimated loss \$60,000.

Ga., East Point—Southern Wood Preserving Co. plant; loss \$15,000.

Ky., Franklin—Perry Cline & Co.'s implement and feed store; property of R. A. Mayhew and G. O. Perdue; loss \$53,500.

La., Monroe—The Missouri R. R. Co.'s power plant, machine and blacksmith shops building; estimated loss \$100,000; E. A. Hadley, Chief Engr., St. Louis, Mo.

La., Shreveport—Jewella Hotel on Magnolia St.; loss \$13,000 to \$15,000; address E. F. Presler, 404 Atkins Ave.

Md., Baltimore—Building at 306 West Baltimore St., occupied by Joe Wiesenfeld, for storage purposes; Dean's Hat Shop operated by T. Hardesty and Sam F. Shearer's Shop; A. Morganstern & Co., manufacturers of trousers.

Md., Fork—Boyd G. Merritt's residence, "Fifteen-Mile House."

Md., Glenarm—Adam Reier's farm buildings near Glenarm; loss \$15,000.

Miss., Ocean Springs—F. E. Lee's residence; loss \$14,000.

Mo., Jefferson City—Twine factory of the Missouri Penitentiary; estimated loss \$6000.

N. C., Charlotte—Yarborough & Bellinger Coal & Ice Co.'s ice plant at 300 S. Graham St., loss \$30,000.

N. C., Gibson—Hotel building; address the proprietor.

N. C., Kinston—Overland Garage, corner Heritage and Blount streets, owned by Richard Dawson; loss about \$35,000.

N. C., Shelby—John Norwood's garage building; loss not estimated.

Okla., Pauls Valley—Globe Hotel; address The Proprietor.

Tenn., Dresden—Dresden Oil Co.'s plant and C. B. Brasfield's potato house; total loss \$15,000.

Tenn., Knoxville—Boyd High School building, Union Ave. and Walnut St.; loss \$100,000; address School Board.

Tenn., Union City—Cobb's Corner Drug Store building; loss \$50,000.

Tex., Cooper—Crawford-Norris-Stevens Co. department store; loss \$90,000.

Tex., Dallas—Building occupied by J. H. Pasour's barber shop and Dr. A. S. Wilkins' offices; Dallas Grocery Co.'s building; Summey Drug Store; A. R. Martin's grocery store.

Tex., Gorman—Buildings owned by Mrs. S. W. Bishop; Sutton Bros. Dry Goods Co.; Goner-Alvin Dry Goods Co.; Denton and H. T. Hambrick Grocery Co.; loss \$20,000.

Tex., Navasota—Rodes residence on Washington avenue, occupied by Will F. Gibbs; loss \$10,000.

Va., Berkley, Sta. Norfolk—Berkley Machine Works at Mulberry and Pearl Sts., loss \$25,000.

Va., Martinsville—Henry County Tobacco Co's plant and G. W. Childress's livery stable, loss \$35,000.

Va., Norfolk—Taylor Marine Railway Co.'s machine and carpenter shops and wharf of Texas Oil Co., in Brambleton; estimated loss \$40,000.

W. Va., Logan—Residences of Jim Kessee, Ed Kessee and Jessie Yager; loss \$10,000.

V. Va., Logan—Jno. Burkhardt's apartment; Lottie Cafe in building owned by Scott Justice; M. S. Herman Confectionery Store in building owned by Guy Peck; Conney Island Lunch Room operated by Nick Elidis; loss \$30,000.

Wrecked by Explosion

Fla., Clearwater—Standard Oil plant; loss \$50,000; J. E. Wicker, local representative.

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

Fla., St. Petersburg—Young Men's Hebrew Assn., M. C. Flato, Pres., plans to erect \$25,000 building.

La., Opelousas—Benevolent Protective Order of Elks will open bids March 18 (extended date) at office Herman J. Duncan, Archt., 120 Murray St., Alexandria, La., for alterations and additions to Elks' Club. (Lately noted.)

La., Shreveport—Young Men's Christian Assn., C. R. Minor, Chmn. Bldg. Comm., has approved plans by Clarence W. King, Shreveport, for erection of \$500,000 building, Travis and McNeill Sts.

Mo., Independence—Independence Aerie, F. O. O. E., plans to erect lodge and community service building.

N. C., High Point—Salvation Army, Thos. Gillam, Pres., Advisory Comm., will erect \$25,000 citadel on South Main street; Sunday school and emergency rooms, auditorium, officers' quarters, etc.

N. C., Wilmington—Masonic Temple Corp., John S. McEachern, Sec., will repair Masonic Temple damaged by fire.

Okla., Pawhuska—Wah Shah She Lodge No. 110, A. F. & A. M., P. J. Monk, Chmn. Bldg. Comm., will receive bids until March 24 (extended date) for erection of brick and cut stone fireproof building; 3 stories, 80x148 ft., structural steel, concrete foundation, cement and composition floors, metal roof, metal and wood finish, tile work, structural and ornamental iron, plate glass, terra cotta, ventilators, elevator, vapor vacuum system of heat; John C. Bradley & Co., Archts, Pawhuska.

Okla., Perry—Ancient Free and Accepted Masons, A. M. Crowder, Worshipful Master, contemplate erection of \$50,000 brick, stone and reinforced concrete temple; will probably soon select architect.

S. C., Greenville—Greenville Lodge No. 858, B. P. O. E., W. R. Taber, Exalted Ruler, plans to erect \$100,000 building, probably on E. North St. at junction of Irving St.; 3 stories, brick; Beacham & LeGrand, Archts, Greenville.

Tex., San Antonio—Knights of Pythias, Wm. W. Herring, Chmn., Bldg. Comm., plan to erect \$250,000 building on block bounded by E. Houston, Bowie, Elm and Starr Sts.; 3 stories, brick and concrete; first 2 floors for lease, upper floor for lodge.

Bank and Office

Fla., Cocoa—Brevard County State Bank, J. R. Anthony, Pres., will probably start construction of new bank building in May.

Ga., Athens—H. V. Head has started construction of office building, Clayton and Jackson Sts., steam heat; elevator service.

Ga., Augusta—Citizens & Southern Bank, Isaac S. Ferguson, Vice-Pres., will erect \$100,000 addition to building in 700 block Broad St.; about 60 ft. square; vault with 2200 lock boxes; Mowbray & Uffinger, Archts., 221 W. 57th St., New York City.

Ky., Louisville—Clarence J. Stinson, Archt., prepared plans for 8-story Professional Office Bldg., 3rd and Guthrie Sts.; cost about \$800,000; construction to begin about June 1.

Miss., Philadelphia—Citizens Bank, C. W. Mars, Pres., is considering erection of bank

building, but no time set for making improvements.

Okla., Oklahoma City—Maurice Jayne, Oklahoma City, is preparing preliminary drawings for erection of 14-story building for Oklahoma Bank.

Okla., Tulsa—Dr. C. W. Day, Temple Apts., will have plans out at once for erection of brick, stone, terra cotta and reinforced concrete fireproof Medical Arts Bldg.; cost \$400,000, 8 stories and basement, with foundations to hold 12 stories, 50x140 ft., flat asphalt roof, concrete and brick foundation, concrete, marble and tile floors, hollow tile, metal lath, mortar colors, art glass, floor hardener, steam heating; Rush, Endacott & Rush, Archts.-Engrs., 101 Lorton Bldg., Tulsa. (Previously noted.)

S. C., Columbia—State, Thos. G. McLeod, Gov., will erect state office building to cost not more than \$500,000; present plans call for 58,000 sq. ft. office space; Malcolm Miller, Sec., Sinking Fund Comsn., has option on site at S. W. cor. Main and Senate Sts. and on site at S. W. cor. Sumter and Senate Streets.

S. C., Greenville—L. A. Claiborne prepared plans for erection of 2-story, 20x90 ft. white brick office building on East North street; plans in hands of contractors.

Tex., Abilene—Dr. J. M. Alexander, Alexander Sanitarium, is having plans prepared by David S. Castle Co., Abilene and Dallas, Tex., for erection of 7-story fireproof office building, Pine and N. First streets; 75x100 ft., concrete, stone and brick; cost about \$250,000. (Lately noted.)

Tex., El Paso—Trost & Trost, Mills Bldg., El Paso, are preparing plans for remodeling 3-story Fenchler Bldg., El Paso and San Antonio, Sts.; new front, 3 additional store rooms; offices on second and third floors; install new plumbing and heating; total cost \$30,000.

Tex., San Antonio—Commercial Loan & Trust Co., purchased 62 x 168-ft. site, Travis and St. Mary's Sts., and plans to erect \$100,000 building; Z. D. Bonner, Vice-Pres.

Tex., Vernon—Waggoner National Bank will remodel and erect addition to building; terra cotta front, marble and tile stairs and corridors, metal screens, tar and gravel roof, plate glass; Voelcker & Dixon, Archts., 500 Morgan Bldg., Wichita Falls, Tex.

Va., Roanoke—National Exchange Bank plans to erect addition to building on Jefferson street; safe deposit dept.; plans to call for bids upon completion of plans.

W. Va., Fairmont—Monongahela West Penn Public Service Co. will remodel 3-story building on Cleveland Ave. near Adams St., for offices; 2 stores on first floor; John C. Burchinal, Archt., Fairmont.

Churches

Ala., Birmingham—Ninth Street M. E. Church, South, Rev. I. K. Waller, Pastor, plans to erect building at 106 Second Ave.; T. L. Brodie, Archt., Birmingham.

Ala., Center—Jail—Cherokee County Comms. will receive bids until March 24 for erection of jail; plans and specifications from office Probate Judge; Fredk. Ausfeld, Archt., Montgomery, Ala. (Previously noted.)

Ala., Jasper—Poley Baptist Church plans to erect building. Address The Pastor.

Ark., Pine Bluff—First Presbyterian Church, Rev. R. Excell Fry, Pastor, is ready to consult architect about erection of stone or brick building, 5th and Beech Sts.; cost about \$125,000, 1 and 3 stories, accommodate 750, hardwood floors, tile roofs; will not be ready to let contracts before Fall. (Lately noted.)

Fla., Gainesville—B'Nai Israel Congregation will erect temple at Arredonda and Magnolia Sts.; 38x39 ft., brick with stucco trim, composition roof, wood floors; Newbold L. Goin, Archt., Gainesville; bids invited.

Fla., Groveland—First Baptist Church will erect church building and addition to parsonage; cost \$23,000 with furnishings. Address The Pastor.

Fla., St. Petersburg—Bethel A. M. E. Church has permit to erect 1-story and basement building, S. E. cor. 3rd Ave., North; cost \$20,000. Address The Pastor.

Fla., Winter Haven—St. Joseph's Catholic Church will erect church and rectory on Villa Road; nave to seat 400; 6 rooms and bath in rectory; both Spanish type; garage to adjoin latter; Taylor & Wakeling, Archts., St. Petersburg, Fla.

Ga., Augusta—Crawford Avenue Baptist Church, Rev. B. F. Halford, Pastor, plans to start construction April 1 on \$30,000 building.

La., Bastrop—Methodist Church plans to erect \$25,000 building, Washington and Hickory Sts. Address The Pastor.

La., Monroe—Methodist Church will enlarge main auditorium and erect \$75,000 Sunday school annex; J. W. Smith, Archt., Monroe.

La., New Orleans—Church of Our Lady of Lourdes will probably let contract at \$74,439 to J. A. Petty, New Orleans, for erection of building on Napoleon avenue near Howard street; 90x130 ft., steel frame, hollow tile walls, tile roof, artificial stone trim; capacity 750; Diboll & Owens, Ltd., Archt., Interstate Bldg., New Orleans.

Md., Phoenix—Methodist Episcopal Church, Rev. Dr. Frank L. Begley, Dist. Supt., plans to erect building.

Miss., Marks—Baptist Church, J. M. Causey, Sec., will receive bids until March 20 for construction of 3-story ordinary type building; 60x96 ft., pine floors, Spanish tile roof; plans and specifications from Jas. E. Greene, Archt., 809 American Trust Bldg., Birmingham, Ala. (Lately noted.)

Mo., Jefferson City—First Baptist Church, Hugh Stephens, Chmn., Bldg. Comm., will not let contract until about April 1 for erection of addition to and remodeling building; cost about \$35,000, brick and white stucco, auditorium to seat 500, departmental rooms; L. B. Pendleton, Archt., St. Louis, Mo. (Lately noted.)

Mo., St. Charles—St. John's Evangelical Church will erect \$25,000 building and install pipe organ. Address The Pastor.

N. C., Chapel Hill—Methodist Church, Rev. Walter Patten, Pastor, will erect \$220,000 building; capacity 1000; Sunday school building and library as adjuncts to main building; Jas. Gamble Rogers, Archt., 367 Lexington Ave., New York City.

N. C., Midway—Methodist Church will erect \$15,000 brick building; auditorium to seat 250, exclusive of gallery, 10 Sunday school rooms and basement; construction will start in about 2 weeks. Address the Pastor.

N. C., Scotland Neck—Trinity Episcopal Church, Rev. Reuben Meredith, Rector, accepted plans by Benton & Benton, Wilson, N. C., for erection of church and parish house; total cost \$45,000.

N. C., Shelby—First Presbyterian Church plans to remodel and enlarge building; install pipe organ. Address The Pastor.

Okla., Anadarko—Christian Church, Frank L. Beach, Pastor, will erect brick Sunday school unit of building; construction will probably begin in spring or early summer, main auditorium to be erected later.

Okla., Elk City—Dr. V. C. Tisdal is interested in erection of \$30,000 church; 2 stories, brick and concrete, concrete foundation, oak floors and finish, tile roof, I-beams, steam heat; Monnot & Reid, Archts., Oklahoma City; plans ready in about 6 months.

Okla., Miami—Presbyterian Church plans to erect building. Address The Pastor.

Okla., Tulsa—First Baptist Church, I. W. Shannon, Chmn., Bldg. Comm., plans to erect 7-story combination church and office building on site of present structure; cost about \$800,000, 100x140 ft., Sunday school to accommodate 3000; Rev. W. O. Anderson, Pastor, advises plans incomplete.

S. C., Batesburg—Methodist Church, J. B. Holman, Chmn., Bldg. Comm., will erect brick building; 2 stories and basement, brick to first floor, hollow tile and brick above, cast stone trim, composition shingle roof; Scroggs & Ewing, Archts., Augusta, Georgia.

S. C., Spartanburg—First Presbyterian Church, A. M. Law, Chmn., Bldg. Comm., has received bids for purchase and removal of Nicholls residence on E. Main St. so that construction of \$300,000 building may begin at once; main auditorium and balcony to seat 1500; 2-story and basement parish house and Sunday school building to face on Chestnut Lane; 76x40-ft. social hall with stage, kitchen, etc., in basement; auxiliary chapel to seat 250, classrooms, etc., on second floor; 70-ft. ornamental tower and belfry; entire structure to be 236 ft. long, main auditorium 60 ft. wide, remainder 96 ft. wide; Lockwood, Greene & Co., Archts., 24 Federal St., Boston, Mass., and Spartanburg. (Previously noted.)

Tex., Bartlett—First Baptist Church, J. V. Morris, interested, plans to erect \$50,000 building; details not determined and architect not selected.

Tex., Bryan—First Baptist Church, H. O. Boatwright, Chmn., Bldg. Comm., is having plans prepared by T. J. Galbraith, Dallas, Tex., for erection of \$100,000 building; total capacity of main auditorium and balcony and Sunday school, 3000; building to be 2 stories and basement, 98x145 ft., brick and tile. (Lately noted.)

Tex., Ferris—Methodist Church, J. T. Batchler, Chmn., will open bids March 15 for remodeling present frame church building and erecting 2-story frame Sunday school wing; R. H. Hunt Co., Archts., Dallas, Tex.

Tex., Hillsboro—Central Christian Church will erect 3-story concrete and brick building; P. G. Silber & Co., Archts., Bedell Bldg., San Antonio, Tex.; bids opened March 12.

Tex., San Antonio—Will N. Noonan, Archt., Moore Bldg., San Antonio, states St. John's Episcopal Church has decided not to build for 2 or 3 years. (Lately noted.)

Tex., San Saba—Baptist Church, R. A. Brite, has plans and specifications completed for erection of stone and brick building; cost \$35,000; 2 stories and basement, 50x80 ft., wood and concrete floors, stone and cement foundation, plaster board, rolling partitions, steel sash and trim, wire glass, flat roof; Will N. Noonan, Archt., 2nd Floor, Moore Bldg., San Antonio, Tex. (Lately noted.)

Tex., Taylor—First Baptist Church is having plans prepared by C. H. Leinbach, Dallas, Tex., for erection of \$75,000, two-story and basement, brick and stone building.

Tex., Waco—Austin Avenue Methodist Church, Rev. Cullom H. Booth, Pastor, plans to erect \$200,000 brick building, 12th and Austin streets; architect not selected; financing.

Va., Portsmouth—Park View Methodist

Church, Rev. J. T. Greene, Pastor, plans to erect \$36,000 building, Webster Ave and A St.

Va., Richmond—Church of the Redeemer is receiving bids through Carneal & Johnston, Archts., Richmond, for improvements to building.

Va., Richmond—Byrd Park M. E. Church, S. E. Bishop, Chmn., 721 E. Main St., will erect church and Sunday school building at early date.

W. Va., Bluefield—Calvary Baptist Church, Rev. R. E. Holder, Pastor, plans to erect building in western section of city.

W. Va., Bluefield—Calvary Baptist Church F. C. Cook, Chmn., Bldg. Comm., is having plans prepared by Lewis & Lewis, Archts., Bluefield, for erection of \$20,000 building; probably ready for bids in about 2 weeks. (Previously noted.)

W. Va., Huntington—Ohev Shalom Congregation, A. B. Solof, Chmn., Bldg. Comm., advised plans for erection of \$175,000 to to \$200,000 synagogue are in course of development and will not be ready for 6 weeks; Meanor & Handloser, Archts., Huntington. (Lately noted.)

City and County

D. C., Washington—Library—District Commrs., Room 427 District Bldg., have low bid at \$176,000 from Schneider-Spliedt Co., 1416 F St., N. W., Washington, for erection of Mount Pleasant Branch Library building; 2 stories and basement, stone, tile roof; Edw. L. Tilton, Archt., 141 E. 45th St., New York City. (Lately noted.)

D. C., Washington—Courthouse—United States Senate authorized appropriation of \$735,000 to erect fireproof addition to courthouse. Address District Commrs., District Bldg.

Fla., St. Petersburg—Coliseum—City will erect 120 x 190 ft. coliseum; plans by T. H. Eslick, Engr.

Fla., Tampa—Auditorium, Market, Fire Stations, Hospital—City, Perry G. Wall, Mayor, will vote April 22 (extended date) on \$2,840,000 bonds, including bonds for auditorium market house, fire stations, hospital, etc. (Lately noted.)

Ga., Waynesboro—Library—City will probably soon call for bids for erection of Hawkes Library; \$6000 from A. K. Hawkes Foundation and \$6000 to be furnished by city.

Md., Baltimore—Garage and Police Sub-Station—City, Howard W. Jackson, Mayor, will erect \$12,000 two-story brick garage and police sub-station; and \$10,000 one-story police sub-station; Franklin O. Adams, Archt., Calvert Bldg., Baltimore.

N. C., Asheville—Municipal Building—City, John H. Cathey, Mayor, expects to be in position to call for bids within 2 weeks for erection of reinforced concrete building to house city market, fire and police stations and jail; 2 stories and sub-basement, fireproof; site 140x230 ft.; Ronald G. Greene, Archt., Oates Bldg., Asheville. (Lately noted.)

N. C., Durham—Municipal Building—City, R. W. Riggsby, City Mgr., will receive bids until March 19 for construction of fireproof municipal auditorium and theatre to seat 2500, 3 stories, 70x160 ft., wood, composition, tile and concrete floors, concrete foundation, Barrett roof, hollow and interior tile, metal doors, vault lights, ventilators, ornamental terra cotta, wire glass, vapor system of heat, cost about \$250,000; information from Durham office of Milburn, Helster & Co., Union Savings Bank Bldg., Washington, D. C. (Lately noted.)

N. C., Fayetteville—Auditorium—City, H. McD. Robinson, Mayor, is considering erection of city auditorium.

N. C., Winston-Salem—Market—City will open bids March 26 for erection of 2-story market house; 114 x 243-ft., reinforced concrete construction, concrete floors, reinforced concrete roof, hollow and interior tile, ventilators, ornamental terra cotta, 2 elevators, Northup & O'Brien, Archts., Winston-Salem. (Previously noted indefinitely postponed.)

Okla., Miami—Sales Pavilion-Convention Hall—City will erect \$20,000 combined sales pavilion and convention hall. Address The Mayor.

Okla., Wewoka—Courthouse—Seminole County, Ellis Cooper, County Clk., is clearing site for erection of courthouse; Jewell Hicks & W. T. Emerick, Archts., Oklahoma City.

Tenn., Jackson—City Hall, etc.—City, Lawrence Taylor, Mayor, will vote May 1 on \$890,000 bonds, including bonds for erection of city hall. (Lately noted.)

Tex., San Benito—Auditorium—City plans to erect municipal auditorium. Address City Commrs.

Dwellings

Ark., Jonesboro—Methodist Episcopal Church will erect parsonage for W. C. House, Presiding Elder, Jonesboro Dist.

Fla., Miami—Sam'l. J. Prescott will erect Italian type residence, N. E. 71st St. and N. Bay Shore Drive; 2 stories, 4 baths, cost \$30,000; August J. Geiger, Archt., Miami.

Fla., Miami—B. E. Rainey will erect \$10,000 two-story residence, S. W. cor. South River Drive and 17th Ave., Grove Park; August Geiger, Archt., Miami.

Fla., St. Petersburg—Mrs. Fanny Keith Kassulker, Cleveland, O., and Umatilla, Fla., purchased site in Fruitland Heights and plans to erect residence.

Fla., St. Petersburg—J. A. Nile purchased site and plans to erect residence.

Fla., St. Petersburg—J. A. Ruell purchased 5 lots on Cypress St. and will erect number of cottages.

Fla., St. Petersburg—Frank Zeigler, Atlanta, Ga., purchased site and plans to erect residence.

Fla., St. Petersburg—J. A. Zeigler purchased site and plans to erect residence.

Fla., St. Petersburg—John Anthony purchased Lewis Tent City and plans to erect 20 dwellings in summer.

Fla., St. Petersburg—American Realty & Investment Co., Edwin Chaffee, Pres., will start construction of 6 dwellings in Pasadena before April 1; cost \$12,000 to \$15,000 each; Spanish and Italian types; Sparklin & Snell, Archts., St. Petersburg; ultimate plans call for erection of 30 dwellings.

Fla., St. Petersburg—M. J. Terranova will erect \$15,000 Italian type residence, Lee St. near 19th Ave., North; 1 story, 6 rooms.

Fla., St. Petersburg—Pasadena Home Builders' Assn. will erect \$15,000 two-story tile and stucco dwelling, 2nd Ave. and 64th St., South.

Ky., Sergeant—W. Burdine Webb will erect residence; contract at once.

Md., Baltimore—Govans Building Co. will erect 4 two-story brick dwellings, west side Govans Ave. north of Harwood Ave.; each 20x30x26 ft.; total cost \$15,000.

Md., Baltimore—Jos. W. Apsley, 29 W. Hamilton Ave., will erect two 1½-story concrete block dwellings, Belle Vista Ave. south of White Ave.; each 24 x 30 x 28-ft., total cost \$10,000.

Md., Baltimore—Roland Park Co., 332 N. Charles St., will erect 5 dwellings on St. Paul St. and 5 on Juniper Rd.; total cost \$235,000.

Md., Baltimore—E. Oliver Murray, 1221 W. Lafayette Ave., will erect 2-story brick residence, west side St. George Rd. south of Edmondson Ave.; 60 x 40 x 28-ft., cost \$17,000.

Md., Baltimore—Jessie A. Davis, 22 Warrenton Rd., will erect \$30,000 residence, west side Rugby Rd., west of Warrenton Rd.; 2½-stories, 56 x 40 x 32-ft., hollow tile.

Md., Baltimore—J. C. Cremons, 2904 Pressman St., will erect 3 cottages, Grove land Ave. near Bucks Lane.

Md., Baltimore—Criterion Construction Co., Violet and Towanda Aves., will erect 11 two-story brick dwellings, N. W. cor. Overlook Rd. and Violet Ave.; total cost \$30,000.

Md., Frederick—Grayson H. Mercer and Mayor Lloyd C. Culler purchased 17 lots on N. Market St. and will erect 17 brick dwellings; 8 rooms.

Md., Baltimore—E. D. Edmondston, 2040 Park Ave., purchased site, Charles St. Ave. and Warrenton Rd., Guilford, and plans to erect residence.

Md., Baltimore—Martin Motley, 105 South St., will erect \$35,000 residence, east side Goodwood Gardens, north of Kenwood Rd.; 2½-stories, about 52 x 73 x 32-ft., hollow tile.

Md., Baltimore—Milburn Realty Co., Eastern Ave. and Eighteenth St., will erect 20 brick dwellings south side Eastern Ave. near 19th St.; each 16x28 ft., total cost \$50,000.

Md., Baltimore—Thos. M. Ramseur, Calvert Court Apts., will erect \$15,000 residence, east side Norwood Rd., south of Overhill Rd.; 2½-stories, 32 x 29 x 28-ft., hollow tile.

Md., Baltimore—M. W. Whiteley & Co., Inc., 3330 E. Monument St., will erect 4 two-story frame dwellings, S. E. side Furley Ave. near Fairview Ave., and two 1½-story dwellings, north side Park Ave. east of Rose Ave., Raspeburg; total cost \$25,000.

Md., Baltimore—Oscar Strauss, Alhambra Apts., will erect 2½-story hollow tile residence and garage, N. W. side Ford's Lane, S. W. of Park Heights Ave.; about 41 x 41 x 22 ft., cost \$11,000.

Md., Baltimore—Carl C. Porter, 307 N. Fulton Ave., will erect 2 shingle bungalows.

Md., Baltimore—W. Winchester White, 1520 Fidelity Bldg., will erect \$25,000 residence, east side Warrenton Rd. south of Overhill Rd.; 2½-stories, 47 x 44 x 32-ft., hollow tile.

Mo., Independence—Ed. Gleazer is erecting bungalow on Walnut St. near Fuller St.

Mo., Independence—John Loveland will erect bungalow on Noland St. near Fair Ave.

Okla., Oklahoma City—L. D. Cox will erect residence at 2243 W. 15th St.

Okla., Oklahoma City—Harry Keller will erect residence at 736 E. 14th St.

Okla., Oklahoma City—Harry M. Lee will erect brick residence, 1901 W. 16th St.

Okla., Oklahoma City—C. A. Rotts will erect frame residence, 1400 W. Park St.

Okla., Oklahoma City—W. A. Suggs, 1209 E. 11th St., will erect residence.

Okla., Oklahoma City—Gilbert Wilson will erect residence, 1212 E. 19th St.

Okla., Oklahoma City—Keen Burwell will erect brick duplex dwelling, 434 W. 19th St.

Okla., Oklahoma City—R. H. Seabough will erect residence at 1521 W. 4th St.

Okla., Oklahoma City—F. M. Sullivan will erect residence, 3017 W. 21st St.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

N. C., Greensboro—J. Goldstein will erect \$18,000 eight-room residences on W. Bessemer Ave.

Okla., Lawton—Mrs. John Manning will erect brick residence; G. S. Glenn, Archt., Lawton and Wewoka, Okla.

S. C., Gaffney—U. W. Brannon purchased lot on Victoria Ave. and will erect 2-story brick dwelling.

S. C. Seneca—Lonsdale Mills will erect 85 employees' dwellings; J. E. Sirrine & Co., Archts., Greenville, S. C.

S. C., Spartanburg—P. S. Cecil, Contr., will erect 2 six-room and 3 five-room dwellings in Hampton Court off Hampton Drive; total cost \$20,000.

Tenn., Memphis—J. M. Blair, Pres., Parkway Improvement Co., will erect 35 6 and 7-room dwellings in Parkway Place; Blair Construction Co., probable contractor.

Tex., Cameron—Presbyterian Church, E. Eggert, Chmn., Bldg., will erect manse.

Tex., Cleburne—R. C. Campbell plans to erect 3 brick veneer dwellings on Wood St.

Tex., Houston—Geo. T. Broun will erect \$15,000 residence, 50 pinedale Ave.; 2 stories, brick veneer.

Tex., Dallas—G. A. Sturdevant will erect 3 six-room dwellings, 5222-18-39 Vandalia St.; brick veneer; cost \$5500 each.

Tex., Dallas—John J. Russell will erect two \$9000 dwellings, 5330-34 Vanderbilt St.; 8 rooms, brick veneer.

Tex., Dallas—J. V. Lincoln will erect 6 six-room brick veneer cottages, 903-07-11-15-19-23 Kidd Springs Drive; cost \$6000 each.

Tex., San Antonio—S. A. Freeborn will erect \$10,000 six-room residence on Summit Ave.

Tex., San Antonio—C. E. Tolhurst will erect \$12,000 eight-room residence on Agartita Ave.

W. Va., Huntington—J. J. Ross will erect \$40,000 residence, 13th Ave. and 2nd St.

W. Va., Huntington—Dr. Richard Stern plans to erect \$20,000 residence on Park Hills.

W. Va., Wheeling—Henry W. Gundling will erect 4 frame dwellings at Warwood; total cost \$28,200.

Government and State

Tex., Orange—Post Office—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., will receive bids until April 4 for construction, including mechanical equipment, of 1-story brick, non-fireproof post office, approximately 82x54 ft.; drawings and specifications from Custodian at site or from office Supervising Archt.

Va., Richmond—Memorial—State, Thos. G. McLeod, Gov., authorized erection of \$250,000 non-utilitarian type war memorial; Senator Morgan R. Mills, probable chmn. of comm.

Mo., St. Louis—Jewish Hospital, Aaron Waldheim, Chmn., Hospital Board, is receiving bids for erection of 7-story hospital building, Kingshighway and Forest Park Blvd.; cost about \$1,600,000, terrazzo floors, accommodate 250; Graham, Anderson, Probst & White, Archts., 80 East Jackson Blvd., Chicago, Ill. (Lately noted.)

Hospitals, Sanitariums, Etc.

Ala., Florence—J. J. Mitchell is member of comm., to erect \$10,000 nurses' home adjoining hospital on Tuscaloosa St.

Ala., Huntsville—City will probably open bids about June 1 for erection of fireproof brick hospital; 4 stories, cost \$150,000; D. A. Dickey, Archt., Huntsville; financing. (Lately noted.)

Ala., Tuskegee—Drs. L. W. Johnston, F. M. Johnston and others purchased residence and will remodel for hospital.

D. C., Washington—District Commrs., Room 509, District Bldg., will receive bids until March 18 for construction of non-fireproof nurses' dormitory; cost \$35,000, 2 stories and basement, 75x35 ft., wood floors, concrete foundation, copper or tile roof; cast iron sectional, smokeless, up-draft, steam boiler, direct radiation; conduit system electric wiring, fire alarm, bells, etc.; laundry tubs, showers, etc.; plans by A. L. Harris, Municipal Archt., Washington; for information apply to Room 427, Dist. Bldg.

Fla., Tampa—City, Perry G. Wall, Mayor, will vote April 22 on bonds to erect Gordon Keller Hospital and additional ward or hospital for negroes, lately noted. (See Buildings Proposed—City and County.)

Okla., Guthrie—A. F. and A. M. Lodge, care of A. M. Anderson, Guthrie, has plans in progress by Hawk & Parr, Archts., Oklahoma City, Okla., for erection of \$100,000 dormitory and sanitarium for old folks. (See Buildings Proposed—Miscellaneous.)

Okla., Muskogee—Methodist Episcopal Church, care Rev. J. M. Hawkins, Pastor, First M. E. Church, South Muskogee, contemplates erection of \$250,000, General Hospital.

Okla., Oklahoma City—Interdenominational Assn., W. B. Kennedy, member Board of Directors, care T. H. Rogers Lumber Co., is having sketches prepared by Jewell Hicks & W. T. Emerick, Oklahoma City, for erection of \$1,000,000 Ku Klux Klan Hospital; Breck Moss, member of Board of Directors, in charge of building. (Previously noted.)

Okla., Oklahoma City—St. Anthony's Hospital, care Sisters of St. Francis, let contract to Alex Peltier Construction Co., Oklahoma City, for erection of dormitory and chapel to cost \$94,000; brick, stone and reinforced concrete, fireproof, 3 stories and basement, 40 x 100 ft.; Monnot & Reid, Archts., Oklahoma City; construction begun.

Okla., Talihina—State Board of Public Affairs, Carl L. Rice, Chmn., Oklahoma City, will erect hospital building and water plant at State Tubercular Sanitarium; cost \$50,000, 2 stories, 40 x 160 ft., brick and frame, concrete foundation, shingle roof, pine finish; Jewell Hicks & W. T. Emerick, Archts., Oklahoma City. (Bids lately noted opened March 4.)

S. C., Spartanburg—Drs. H. R. Orr, Sam Orr and Hugh Black will let contract to Lockwood, Greene & Co., 24 Federal St., Boston, Mass., Spartanburg, etc., for erection of \$100,000 Georgian-Colonial type hospital on E. Main St.; 3 stories, L-shape, fireproof, except floors, brick, stone and steel construction, elevators; 55 to 60 rooms, X-ray power equipment and heating plant in basement; plans by Walter Cook, Ch. Archt. for Lockwood, Greene & Co.

Tenn., Chattanooga—City, plans to open bids early in April for addition to Erlanger Hospital; R. H. Hunt Co., Archt., Chattanooga. (Previously noted.)

Tex., Houston—City, O. F. Holcombe, Mayor, will erect \$65,000 addition to City-County Hospital for nurses' home and isolation ward; plans by W. A. Dowdy, City Archt.

Tex., Kerrville—Rev. J. A. Tyler, Gen. Supt., Tyler's Four States Hospital, Inc., 1025 E. Crockett St., San Antonio, Tex., and 1216 E. 7th St., Austin, Tex., is interested in erection of \$350,000 hospital building and nurses' training school for Tyler's Four States Hospital; soliciting funds.

Tex., Seymour—Baylor County, Ernest Tibbetts, Judge, is having plans prepared by A. B. Withers, Mineral Wells, Tex., for erec-

tion of \$50,000 hospital; bonds voted. (Lately noted.)

Tex., Wichita Falls—State Board of Control, S. B. Cowell, Chmn., Austin, Tex., will receive bids until March 15 for erection of 2-story fireproof Helps Dormitory at Northwest Texas Hospital for Insane; plans from Voelcker & Dixon, Archts., 500 Morgan Bldg., Wichita Falls. (Lately noted.)

Hotels and Apartments

D. C., Washington—Virginia Hotel Co., Thos. B. Love, Pres., 1403 F Street Washington, D. C., is reported to contemplate erection of addition to Willard Hotel, on site of old bank building on F Street, adjoining hotel on west; 50-ft. frontage, steel and brick construction, 9 stories, contain 61 rooms, each room with bath and shower; 2 rooms on street level for business purposes; address Frank S. Hight, managing director, Washington, D. C.

Fla., Clearwater—Geo. G. Washburn contemplates erection of addition to Gray Moss Inn to cost \$22,000.

Fla., Jacksonville—Miss Henrietta Dozier, Archt., Bisbee Bldg., is preparing plans for erection of 2-story, 10-apartment building to cost \$40,000, for Mr. Lampru; oil burning furnace heat.

Fla., Miami—J. R. Blackwood of Detroit, Mich., and Miami, is reported to contemplate erection of hotel apartment building to be built in Fort Dallas Park and cost upward of \$750,000; 11 stories, 90x95 ft.; construction to start about April 1st.

Fla., West Palm Beach—Wm. L. Woodcock, Ph. D., contemplates erection of a third story this summer to St. Charles Hotel; has purchased property adjoining as site for hotel.

Ky., Paducah—Dr. G. B. Froage contemplates erection of double apartment building at Seventh and Jefferson Sts.; cost \$10,000, 2 stories, brick, stone and wood joist construction, 40x60 ft., concrete foundation, oak and concrete flooring, Barrett roofing, ventilators; address D. Harry Jamieson, Archt., Campbell Bldg., Paducah. Bids opened Mar. 8. (Lately noted.)

La., Baton Rouge—Istrouma Hotel Co. contemplates erection of addition to Istrouma Hotel to cost \$15,018

Md., Deer Park—Henry S. Duncan, Hotel Halcyon, Miami, Fla., has purchased Deer Park Hotel from Baltimore & Ohio Ry. Co., Baltimore, and is reported to plan \$500,000 expenditure for remodeling and improving present buildings and erecting resort hotel.

Miss., Columbus—Mrs. J. T. Gunter proprietress Commercial Hotel, has plans in progress by R. A. Heavener, Jackson, Tenn., for erection of 4-story addition and remodeling present building; cost about \$100,000; front 108 ft., 2 wings 108 depth; brick construction, pine, tile and concrete flooring, cement foundation, built-up roofing, ornamental terra cotta, rolling partitions. (Lately noted.)

Mo., Kansas City—W. H. Corcoran contemplates erection of 2-story addition to 1-story brick structure on north side Westport Ave.; plans call for 36-room hotel on upper floors.

N. C., Gastonia—R. G. Rankin will erect 16-room apartment house on S. Willow St. to cost \$15,000.

N. C., Greensboro—Mrs. A. W. Kaplan will erect 16-room brick apartment house on Summit Ave. near Church St. to cost \$16,000.

N. C., Greensboro—J. E. Latham Co., contemplates erection of 250-room hotel on Corner East Market and South Davie Sts., to cost \$1,000,000; 140x200-ft., 8 or 9

stories, fireproof; will contain roof garden; plans in 6 weeks or 2 months; 200 rooms to be added when needed; G. Lloyd Preacher Co., Archts., Atlanta and Augusta, Ga. and Raleigh, N. C.

N. C., Greensboro—James T. Moorehead has approved plans by Chas. C. Hartmann, Archt., Greensboro, for erection of 14-story hotel building, to contain 280 rooms at Greene and Sycamore Sts.; cost of building about \$650,000 and furnishings about \$135,000, land valued at \$150,000; 106x121 ft., entrances on Greene and Sycamore Sts. under iron and glass marquee, 5 store rooms on sidewalk level; with plate glass fronts; lobby, dining room and lounge room will have tile floors, marble base and wood wainscoting; decorative plaster work; ball rooms 30x85 ft.; all rooms will have private baths or shower rooms with tile floors, wainscote and marble linings; 2 electric passenger 1 freight elevator. (Lately noted.)

Okla., Newkirk—J. H. Coleman and C. F. Mehring are members of stock company having plans prepared by Ellis Charles & Co., Wichita, Kansas, for erection of \$75,000 hotel; 3 stories and basement, brick and concrete, concrete foundation, composition roofing, wood floors, gum and pine finish, structural fire escapes, vacuum steam heat, hollow tile, metal ceilings, waterproofing, mortar colors, deadening gilt, plate glass, screen, ventilators. (Lately noted.)

Okla., Oklahoma City—C. F. Woodward will soon award contract for erection of 2-story apartment house to cost \$25,000; brick, tar and gravel roof, concrete foundation, oak flooring; Bailey & Allen, Archts., Oklahoma City.

S. C., Clover—W. P. Smith owner of Youngblood Hotel plans extensive improvements and enlargement.

S. C., Marion—J. O. Gasque, pres. of Advertising Club; R. J. Blackwell, pres. Chamber of Commerce; J. B. Jones, representing Kiwanis Club; and C. B. Whilden, sec. and treas. Building & Loan Assn., are promoting erection of hotel; over \$100,000 has been subscribed and construction will probably start within a month.

Tenn., Knoxville—Col. Claude S. Reeder is reported to contemplate erection of 2 additional stories to Sunshine Hotel, Sunshine; also plan erection of garage and dance hall in connection with hotel.

Tenn., Memphis—Dr. Wm. A. Craig will erect apartment house on Granville Place; exterior will be dark clinker brick and stucco, half timbered, slate roof, 8 apartments each with living room with in-a-door bed, alcove, kitchen with built-in stove and ice box and hall and bedroom; plans by J. Frazier Smith and M. H. Barham, Memphis. Construction will start immediately.

Tex., Dallas—T. B. Baker, San Antonio, has purchased Oriental Hotel from Oriental Hotel Assn., Walter L. Schneider, Pres., for \$785,000 and is reported to contemplate erection of \$4,000,000 hotel on site; construction may begin in fall.

Tex., Dallas—Maple Terrace Apartment Co. incorporated by Jno. H. McDonough, Wurttem D. Jones, J. Kirby McDonough and Jos. B. Rucker, all Dallas, and contemplate erection of 8-story apartment building at Maple Ave. and Wolf Sts., to be known as Maple Terrace and cost about \$1,000,000; 800x375 ft., will contain 70 apartments; Alfred C. Bossom, Archt., 680 Fifth Ave., New York City.

Tex., Fort Worth—Baker Hotels, Inc., T. B. Baker, Pres., contemplates installation of cafeteria to seat 318 people in The Texas Hotel; plans and specifications complete and construction will start in spring.

Tex., Junction—J. Fritz plans to erect tile or brick hotel building to cost \$75,000.

Miscellaneous

Ala., Birmingham—Home—Alabama Welfare Assn., W. J. Wise, Pres., has plans by E. D. Van Keuren, Conslt. Engr., Birmingham, for converting Pisgah Home at Germania Park into a home for delinquent girls; 2 stories, frame, will contain 36 bedrooms, dining room, living room and quarters for matron and will accommodate 72 girls; cottage near home will be converted into hospital. (Lately noted.)

Fla., Altamonte Springs—Home—Charles D. Haines has donated to Florida Press Assn. properties valued at about \$150,000, including \$10,000 in cash, for the establishment of a home for aged newspaper men and a school of journalists; properties include 20 acres bearing orange grove, a clubhouse and theatre.

Fla., St. Petersburg—Reviera Country Club, E. M. Elliott, Acting Pres., has been organized and incorporated, with \$1,500,000 capital and contemplates extensive developments on Weedon's Island; plans include 9-hole and 18-hole golf courses, Roman plunge with stadium around plunge and dressing rooms and shower facilities underneath, combination casino and club house with kitchen and dining room downstairs, provision for dancing in dining room, casino will have dancing and dining facilities, third and fourth floors will house men's club; also contemplate erection of hotel to cost in excess of \$3,000,000; Jno. J. Watson, Toledo, Ohio and Donald Ross, 459 Seventh Ave., New York City, golf and landscape architects; building being designed by G. Lloyd Preacher, Archt., Atlanta, Ga.

Fla., Stuart—Harold E. Gallup, Archt., 646 North Michigan Ave., Chicago, Ill., advises that work on building for A. P. Kreuger will be in progress probably this coming summer; will contain automobile sales room, office and stores; 20 rooms above for use of transients; cost \$70,000; 10 stories, fireproof tile construction. (Lately noted.)

Fla., Wauchula—Clubhouse—Civic League has accepted plans of W. B. Talley, Lakeland, Fla., and expects work to start within 2 months on clubhouse; Spanish type; exterior to be finished in cream stucco over tile with window casings and other finishings in stone; mottled tile roof, pine floors, interior finish of plaster; will contain library, rest room, kitchen with built-in cupboards and sinks, cloak room and auditorium to seat 300.

Ga., Sparta—Fair—Hancock County Fair Assn., S. D. Truitt, Sec., contemplates erection of buildings on fair grounds to house exhibits.

La., New Orleans—Camp—W. C. Wright, Pres. Army's Advisory Board, announces the Salvation Army will build fresh air camp for working women and their children.

Md., Baltimore—Clubhouse—Hillendale Golf Club has approved preliminary sketches for clubhouse, prepared by Wyatt & Nolting, Keyser Bldg., Baltimore; construction of locker-room will be started at once; will build 4 tennis courts.

Md., Baltimore—Clubhouse—Board of Governors of Maryland Country Club, Fred C. Schanberger, Pres., 3906 Liberty Heights Ave., appointed Harry W. Busick, Baltimore and Hanover Sts., Chmn. of Comm., to investigate design of building and cost of construction for rebuilding club house on old site, Park Heights Ave. and Carroll Road; to be ready for occupancy by June 15. (Lately noted—destroyed by fire at \$150,000 loss.)

Miss., Jackson—Home—Board of Directors of Mississippi Children's Home Society plans to erect addition to present building

in North West St.; address Dr. J. L. Sutton, Supt.

N. C., Winston-Salem—Executive Comm. of Trustees of Methodist Children's Home ordered plans drawn for erection of 2 cottages. (See Contracts Awarded—Hospital.)

Okla., Guthrie—Home—Ancient, Free and Accepted Masons, c/o A. M. Anderson, Guthrie, has plans in progress by Hawk & Parr, Archts., Oklahoma City, for erection of \$100,000 dormitory and sanitarium for old folks; 4 stories, brick and stone, reinforced concrete foundation, tile roof, oak booms and finish, steam heat.

Okla., Pawhuska—Funeral Home—J. L. Johnson contemplates erection of \$40,000 funeral home.

Okla., Ponca City—Lodge—E. W. Maryland of Maryland Oil and associated companies will erect extensive lodge in connection with 300-acre game preserve.

W. Va., Bluefield—Chapel, etc.—Kenneth Bailey and others will erect chapel, offices and home for caretaker at new cemetery to be called Monte Vista Park; L. T. Caudle, resident Engr.; E. S. Draper, Landscape Archt., Charlotte, N. C.

W. Va., Charleston—Noyes & Young will erect 3 store rooms, battery service and sales station in Broad St.; cost \$13,000.

W. Va., Elkins—Home—Independent Order of Odd Fellows contemplates repairs to buildings at Home.

W. Va., Huntington—Fair Building—R. H. Armstrong has plans in progress by Maenor & Handloser, Huntington, for erection of 1-story brick and steel Vanity Fair building to replace structure recently destroyed by fire at \$50,000 loss; 90x160 ft.; to contain roof garden and display for cars. (Lately noted.)

Railway Stations, Sheds, Etc.

Okla., Bristow—St. Louis-San Francisco Ry. Co., F. G. Jonah, Ch. Engr., St. Louis, Mo., contemplates erection of brick depot; to cost \$40,000; Bids opened Mar. 12th. (Lately noted.)

Schools

Ala., Birmingham—County Board of Education, N. R. Baker, Supt., plans expenditure of \$500,000 for school purposes during 1924; plans include: erection of 9 senior high schools, with seating capacity of 3000, cost over \$250,000; 15 junior high schools will either be erected or additions made to present buildings, cost about \$250,000; District 7A, brick structure with seating capacity of 500, cost \$40,000; District 5A, brick building to seat 500, cost \$35,000; District 9A, brick, seat 500, cost \$35,000; District 6A, brick, cost \$35,000; 500 capacity addition to Alliance School, cost \$17,500; addition to Mortimer Jordan School, tile material, seat 600 and cost \$42,000; brick addition to Shades-Cahaba School, cost \$7000; annex to Corner School, tile and cost \$17,000; brick building at Leeds to seat 600 and cost \$42,000; 40 junior high and elementary schools will have new buildings or additions made to them, 150 new rooms for class work, 20 offices and library rooms, auditoriums in each building by placing rolling partitions through classrooms; 17 building for colored pupils to cost \$90,000; will also expend \$75,000 for equipment. (Lately noted in part.)

Ala., Decatur—Morgan County Board of Education is receiving bids for erection of \$25,000 school building at Falkville and \$4000 school, school on Danville-Hartselle Highway; Falkville school will be built of shale tile from Birmingham.

Fla., Miami—Sisters of St. Joseph, Rev. mother Marie Louise, St. Augustine, expects construction to start soon on erection of

first unit of \$250,000 Young Women's College and Academy on Seville Ave.; 3 stories; first floor for sisters ad student's dining room, kitchen, dining room, reception room and several classrooms; second floor will contain about 14 classrooms each 25x32 ft., also sisters dormitories, general and private reception rooms, office of reverend mother, study and sisters' and students' infirmary; third floor will contain 25 sisters' dormitory rooms, 2 general dormitories with 30 beds each, with sisters' dormitories or rooms between, and library 48x56 ft.; Walter C. DeGarmo, Archt., Miami, Fla.

Fla., Milton—Board of Public Instruction of Santa Rosa County will open bids March 22 for erection of Harold brick school building No. 6B; plans and specifications may be obtained from Supt.

Ga., Marietta—Marietta School Bond Commission, Jno. H. Boston, Chmn., will open bids Mar. 14th to erect high school building; plans and specifications may be secured from Daniell & Beutell, Archts., Atlanta, Ga.

La., Lake Providence—East Carrol Parish School Board will hold election April 15, to vote on \$125,000 bond issue to build and equip parish school system for both white and negro schools; plans include erection of brick building on high school campus at Lake Providence; Lane's Ferry will be enlarged; 12 Rosenwald schoolhouses will be erected for negroes and site will be purchased and training school for negroes will be erected.

Md., Baltimore—Chas. H. Osborne, Inspector of Buildings and Sec. of Architectural Comm., invited 26 individual architects and architectural firms to enter competition for new City College to be erected on Gilman-Tate property on south side thirty-third St. at cost of \$1,500,000; program of competition prepared by Dr. Warren P. Laird, professional adviser to Architectural Comm. and Public Improvement Comm.; competition will close May 10 and archt. selected June 3. (Lately noted.)

Miss., Columbus—City Council has ordered election for Mar. 25th, to vote on \$425,000 bond issue for city improvements; \$125,000 will be used for erection of high school building.

Miss., Okolona—Board of Trustees, B. F. Ellis, W. R. Doake and others, will award contract April 8th, for erection of 3-story brick and frame school building; steel trusses, 180-200 ft., wood and concrete flooring, reinforced concrete foundation, composition roofing, metal ceilings, ventilators; Claude H. Lindsley, Archt., 50-53 Kress Bldg., Jackson, Miss., advises that plans and specifications will be ready for contractors on March 15th, all requests should be made before Mar. 15th; plumbing, heating and wiring will be let separately. (Lately noted.)

Mo., Blue Springs—Movement has been started for formation of special school district and erection of high school building. Address Mayor.

Mo., Carthage—Plans are in preparation for erection of several homes for members of faculty of Ozark Wesleyan College.

Mo., Farber—Audrain County Board of Education, Mexico, Mo., was defeated \$40,000 bond issue for school building.

Mo., Independence—Citizens of Rock Hill School district are planning to erect school building; address School Board.

Mo., Jasper—Jasper County Board of Education, Carthage, will hold election in spring to vote on \$35,000 bond issue for school improvements; plans include additions to present building of gymnasium, auditorium and class rooms.

Mo., Stockton—Board of Education, Nellie B. Hurt, Sec., voted \$50,000 bond issue for erection of high school building. (Lately noted.)

N. C., Durham—Durham County Board of Education, Jno. W. Carr, Jr., Supt., approves bond issues for East and West Durham districts to total \$110,000; \$50,000 for East Durham to be used for erection of building with 8 rooms and auditorium to cost \$40,000, and \$10,000 for additional grounds and equipment; \$60,000 for West Durham for erection of 10-room addition to cost \$50,000, \$5000 on additional lands and \$4000 on equipment.

N. C., Greensboro—North Carolina College for Women, Dr. J. I. Foust, Pres., will open bids Mar. 25th, for erection of music building to be erected at Tate St. and Walker Ave., to cost \$200,000; 3 stories, brick with limestone trimmings; will contain recital hall to seat 250 persons; studios, classrooms, and practice rooms will be sound-proof; Harry Barton, Archt., Greensboro, N. C.

N. C., Mocksville—Davie County Board of Education has plans for erection of school building for New Shady Grove Consolidated District to cost \$75,000.

N. C., North Wilkesboro—City voted for new school building; will borrow \$60,000 from the State; address Wilkes County Board of Education, Wilkesboro.

N. C., Pomona—Guilford County Board of Education, Greensboro, contemplate erection of 6-room addition to high school building; non-fireproof, concrete foundation, wood floors, composition roof; one story; will include auditorium; Harry Barton, Archt., Greensboro, N. C.

N. C., Summerfield—Guilford County Board of Education, Greensboro, contemplates erection of 10-room school building with auditorium; bids will be asked in about 3 months.

N. C., Waynesville—United States Veterans Bureau, Frank T. Hines, Director, Arlington Bldg., Washington, D. C., contemplates enlargement at United States Veterans' Bureau Training School to care for 130 or more trainees; cost of building and equipment \$20,000 to \$25,000.

N. C., Winston-Salem—Forsyth County Board of Education, J. F. Griffith, Chmn., contemplate purchasing 3-acre site in Old Richmond Township for erection of colored school.

Okla., Bristow—Board of Education, Van D. Stout, Treas., opened bids for erection of high school building; contract not awarded; cost \$135,000; C. Lee Curran, Archt., Bristow.

Okla., Cushing—Board of Education, S. A. Bryant, Clerk, will soon select site for erection of \$20,000 colored school; 1-story, brick, stone, concrete foundation, metal roof, cement and wood floors, metal finish, structural steel, gas heating; Jno. C. Bradley, Archt., Pawhuska, Okla.

Okla., Edmond—Board of Education, O. W. Jeffries, Clerk, approved plans by Sorey & Valberg, 212½ E. First St., Oklahoma City, Okla., for erection of high school building; cost \$85,000, 2 stories and basement, 144x104 ft., concrete foundation, concrete and maple flooring, composition roofing, hollow tile, vaults, steel sash and trim, wire glass; plans include auditorium, gymnasium, library, science rooms, laboratories, dining rooms and class rooms; contract will be let about April 15th. (Lately noted.)

Okla., Guthrie—Board of Education, c/o Mrs. Louthier, Clerk, has plans in progress by Hawk & Parr, Archts., Oklahoma City, for erection of High School building to cost \$190,000; 3 stories, 32 classrooms, audito-

rium and gymnasium, brick and stone superstructure, reinforced concrete construction with concrete foundation, pitch and gravel roof, oak finish, structural steel, steam heating. (Lately noted—voted \$280,000 bond issue.)

Okla., Lawton—J. Hale Edwards has plans in progress by G. S. Glenn, Archt., Lawton and Wewoka, Okla., for erection of 2-story building at Interstate Vocational University, to cost \$50,000; 50x140 ft.

Okla., Muskogee—Board of Education contemplates erection of additions to Central High School, Longfellow School, Douglass School, Dunbar School and Manual Training High School; no action in immediate future; plans call for 31 additional classrooms to cost \$150,000. (Lately noted.)

Okla., Oklahoma City—Parsons Club, Mrs. A. C. Cardwell, Pres., contemplates erection of school house for crippled children of the Parsons School between Second and Third Sts., on Geary Ave., to cost \$60,000.

Okla., Okmulgee—Board of Education, A. D. Atkisson, Clerk, will have plans March 15 for erection of Longfellow School and East Side School; will also have plans soon for erection of Lee School building; Smith & Senter, Archts., Okmulgee.

Okla., Okmulgee—Board of Education opened bids March 3 for erection of Emerson School building; plans in progress for erection of McKinney School; Smith & Senter, Archts. for both buildings, Okmulgee, Okla.

Okla., Ponca City—Board of Education, Miss Ida Mae Rogers, Clerk, contemplates erection of Garfield School building; cost \$100,000, 2 stories, contain 14 classrooms and auditorium, fireproof; Smith & Senter, Archts., Okmulgee, Okla. (Lately noted.)

Okla., Ryan—Board of Education, W. L. Givens, Clerk, contemplates erection of high school auditorium; heating, plumbing and wiring bids will be received separately at later date; 1 story, 119x91 ft., brick and concrete, brick with concrete foundation, composition roof, wood floors, pine finish and steam heat; bids opened March 12th; E. H. Eads, Archt., Chickasha, Okla.

Okla., Tuttle—Board of Education, Mrs. W. E. Wise, Clerk, selected E. H. Eads, Chickasha, to prepare plans for erection of \$40,000 high school building; 1-story (1 unit plan), 122x158 ft., brick and steel, concrete foundation, composition roof, wood floors and finish, structural steel, steam heating, hollow tile, metal lath, metal ceilings, steel sash, waterproofing.

S. C., Gaffney—Building Committee of Limestone College, W. C. Hamrick, Chmn., will open bids March 27 (extended date) for erection of Hamrick Science Hall, Carroll School of Fine Arts and President's Home; cost \$50,000, \$50,000 and \$20,000; 65x100 ft., 65x97 ft. and 40x60 ft.; brick and stone walls; wood, tile, composition and concrete flooring; 2 stories, concrete foundation, slate roofing, hollow tile, interior tile, plaster board, ventilators; plans and specifications may be seen at office of Wilson, Berryman & Kennedy, Archts., Columbia, S. C., and Wilson and Gastonia, N. C.; Builders' Exchanges, Columbia, S. C., and Atlanta, Ga.; Chambers of Commerce, Charlotte and Greensboro, N. C.; E. S. Draper, Landscape Archt., Charlotte, N. C. (Lately noted—to open bids Mar. 18).

S. C., Greenwood—Lander College, Rev. B. R. Turnipseed, Pres., has plans in progress by Rudolph E. Lee, Clemson College, S. C., and J. C. Hemphill, associated, for erection of girls' dormitory; 50 room, 3 stories, granite foundation, brick and concrete, slate roof, wood and tile floors, metal lathe stone trimmings, steam heat and

electric lighting; plans will be complete latter part of March. (Lately noted.)

S. C., Pendleton—Hunter School District will soon call election to vote on bond issue of not more than \$39,000.

Tenn., Nashville—E. W. Foster is Genl. Chmn. of campaign to raise \$75,000 for establishing Scarritt College; plans include erection of \$500,000 Social-Religious Building.

Tenn., Sweetwater—Monroe County Board of Education is having new plans prepared by A. B. Baumann & Son, Knoxville, for erection of \$60,000 school building; oak flooring, ventilators, steel sash and trim, brick and concrete foundation, composition roof, 2 stories. (Lately noted—all bids rejected.)

Tex., Bowie—Board of Education, J. S. Schouder, Clerk, contemplates bond election in spring to vote on bonds for school work; E. H. Eads, Chickasha, Okla., is preparing plans for erection of \$100,000 high school, 2 ward schools and addition to ward school buildings; High School will be 3 stories and basement, structural steel and brick, fireproof, concrete foundation, composition over concrete roof, wood over concrete floors, metal finish, structural steel, steam heating, hollow tile, metal lath, metal ceiling, steel sash, waterproofing, floor hardener.

Tex., Cameron—School Board, Dr. A. S. Epperson, Pres., contemplates erection of junior high school building to cost \$75,000 and brick school building for negroes to cost \$15,000; contracts will be let soon. (Lately noted.)

Tex., Dallas—Board of Education authorized Flint & Broad, Archts., Dallas, to advertise for bids for erection of addition to Brown School building and Herbert M. Greene, Archt., Dallas for addition to San Jacinto School building; bids must be in March 22nd. (Lately noted.)

Tex., Hale Center—Hale Center School District voted \$25,000 bond issue for erection of addition to high school building.

Tex., Houston—City Council will call election April 5 to vote on \$3,000,000 bond election for extension of school system. (Lately noted.)

Tex., Houston—Maurice Sullivan, Archt., is receiving bids for erection of main building, chapel and power house, first buildings of a training school for nuns for Sisters of Charity of the Incarnate Word, at southwest corner Telephone Road and Wayside Drive; cost \$400,000; main building 3 stories, 60x275 ft., with 60-ft. wing; chapel 50x150 ft. (Previously noted.)

Tex., Normangee—Normangee Independent School District contemplate \$40,000 bond issue for erection of school building.

Tex., Thalia—Foard County Board of Education, T. M. Haney, Pres., will open bids March 24th, for erection of \$40,000, 9-room and auditorium school building; 1-story; plans may be obtained from Voelcker & Dixon, Archts., Wichita Falls, Tex., upon deposit of \$10.00; heating and wiring bids will be received separately. (Lately noted.)

Va., Abington—Executive Board of Martha Washington College, C. B. Curtis, Pres., contemplates raising \$8750 for erection of building to include gymnasium, swimming pool, 2 floors of dormitory space, and library.

Va., Charlottesville—Albemarle County Board of Education opened bids for erection of school building at Gordon Ave. and Fourteenth St.; Gooch-Williams Co., Norfolk, was low bidder at \$174,975; Calrow & Wren, Archts., Norfolk, Va. (Lately noted.)

Va., Staunton—Board of Trustees of Stuart Hall, Rev. Robt. Carter Jett, Roanoke, Pres., has purchased property of west Frederick St. and contemplates remodeling present

building on property into class rooms for primary department of Virginia Episcopal Church's school for girls.

W. Va., Keyser—State Board of Control, Jas. S. Lakin, Pres., Charleston, will open bids Mar. 21, for erection of dormitory at Potomac State School; 2 stories and basement, contain 60 rooms, A. Gillis, Archt., Fairmont, W. Va. (Lately noted to open bids Mar. 12.)

W. Va., Mannington—Board of Education of District of Mannington, L. A. L. Thomas, Sec., was defeated \$200,000 bond issue for purchasing site and erecting high school building; Frank Upman, Archt., Woodward Bldg., Washington, D. C.

Stores

Fla., Daytona—J. Henry De Cumber, New Haven, Conn. and R. M. Raymond, Ormond, Fla., contemplate erection of 1-story, Spanish type building on Volusia Ave.; brick and hollow tile, fireproof, will contain 5 store rooms.

La., Shreveport—M. D. Weeks, Archt., is receiving bids for erection of store building for Neal & Bloxom on Laurel St.; brick, 1-story, 60x60 ft. composition roof, plate glass and metal store fronts; following contractors and bidding: J. I. Thomas, A. & M. Construction Co., Glassel-Wilson Co., Homer Hodges and McConnell & McConnell.

Mo., Carthage—A. L. Jeffries will erect stucco store building on Highland St.

N. C., Gastonia—R. G. Rankin will erect 2 stores on East Franklin Ave. to cost \$20,000.

Okla., Bartlesville—W. Robt. Runkles, Archt., Room 24, Burlingame Maire Bldg., has plans in progress for erection of 2-story store and office building to cost \$30,000; 50x100 ft., face brick, stone and hollow tile, reinforced concrete foundation, composition roof, cement floors on first floor, tile entrances to stores, second floor on hollow tile and mazzel red oak finish, reinforced iron and lintels, gas steam heating, hollow tile, metal lath, mortar colors, plate glass, ventilators; Owner's name withheld.

Okla., Oklahoma City—H. C. Provines, 1538 W. 24th St., has received bids and will soon award contract for erection of 1-story brick store building; 28x50 ft., wing 16x48 ft.; Layton, Smith & Forsythe, Archts., Oklahoma City.

Okla., Pawnee—Jno. Tensfield will erect brick business building on Harrison St.

S. C., Greenville—Mrs. M. C. Sanders will

erect store and apartment building to cost \$10,000.

S. C., Spartanburg—Dr. N. T. Clark and C. C. McMillan will erect building to contain 2 stores on first floor and clinic above; cost from \$16,000 to \$20,000; Paul Williams, Archt., Spartanburg.

Tenn., Chattanooga—O. Z. Wise plans to enlarge 4 and 8 cent store at 1234 Market St.

Tenn., Memphis—Marx & Bensdorf are financing erection of 2-story building at northwest corner Third St. and Monroe Ave., to be known as Graham Building and cost \$50,000; brick, stone and terra cotta construction; ground floor will have 8 stores, large one with corner entrance, 3 on Third and 4 on Monroe; upstairs will have 16 suites of offices, shaped along "U" corridor with light court in rear; 75x108 ft.; Jones & Furbinger, Archts., Memphis, Tenn.

Tex., Austin—S. Ferris, 505 East 6th St., has purchased site at 50 E. 6th St., and contemplates erection of 2-story brick department store to join present building; 23x128 ft.

Tex., Waco—Sanger Brothers have leased property at Houston and Fifth Sts., and is reported to contemplate erection of store building; 6 stories and basement, 100x100 ft.

Va., Bristol—Dr. W. R. Rogers is reported to contemplate erection of business house on State St.

W. Va., Huntington—Solof-Schontahal Syndicate has started construction of \$30,000, 2-story store and office building on Fourth Ave.

Theatres

Md., Baltimore—Samuel Salz, 1012 Forbes St., Pittsburgh, Pa., representing motion picture interests of that city, has purchased Pickwick Theater on Howard St. through Lee Dornberg, New Amsterdam Bldg., Baltimore, and will make extensive improvements.

Warehouses

Tex., Dallas—E. C. Palmer & Co. has plans in progress by L. R. Whitson, Dallas, for erection of 4-story and basement warehouse and office building to replace structure recently destroyed by fire at 406-8 Lacy St., South Dallas; cost \$60,000; 50x143 ft.; construction to start May 1.

BUILDING CONTRACTS AWARDED

Association and Fraternal

Miss., Vicksburg—Young Men's Christian Assn., Colored, F. B. Wilcoxon, Gen. Sec., let contract to McGee Construction Co., Jackson, Miss., for erection of building on site of present structure, Jackson and Walnut Sts.

Okla., Holdenville—Masonic Building Assn. let contract to J. J. Votaw, Holdenville, for erection of \$125,000 fireproof Masonic Temple, Broadway and 7th St.; 5 stories, 50x140 ft., reinforced concrete, concrete foundation; Tonini & Bramblett, Archts., Oklahoma City, Okla.; work will probably soon start. (Lately noted.)

Tex., Sherman—Travis Lodge No. 117, A. F. & A. M., A. C. Sanders, Treas., let contract at \$38,400 to Young, Alman & Wood, Sherman, for erection of Masonic Temple on Lamar St.; 50x100 ft., 2 stories and basement, concrete, brick, steel and wood construction, concrete and hardwood floors, 5-

ply built-up roof, concrete foundation, metal lath, vaults, ventilators, steel sash and trim, wire glass, stone work, natural gas heat; plumbing to Wasnig Plumbing Co.; John Tulloch and Clyde & Rolfe, Archt., Sherman. (Lately noted.)

Bank and Office

Md., Baltimore—Home Friendly Insurance Co., 1026 Linden Ave., let contract to R. B. Mason, 306 W. Madison St., for erection of office building, Park Ave. and Center St.; 60x150 ft., brick and stone, slag roof, wood floors, steam heat, Italian renaissance type; 4 stores on first floor; Clyde N. & Nelson Friz, Archts., Lexington Bldg., Baltimore. (Lately noted.)

Md., Baltimore—Mercantile Trust & Deposit Co. let contract to David M. Andrew Co., Sisson and 26th Sts., Baltimore, for erection of 4-story stone and brick building, Franklin and Charles Sts.; first floor fire-

proof, remainder ordinary mill construction; elevators to Otis Elevator Co.; Theo. Wells Pietrich, Archt., American Bldg., Baltimore. (Lately noted.)

Okl., Tulsa—Skelly Oil Co. has indefinitely postponed erection of 2-story addition to building, 4th St. and Boulder Ave., for which W. H. Horster, Tulsa, had contract. (Noted Feb. 11.)

S. C. Spartanburg—Arnold Stone, Brick & Tile Co., Jacksonville, Fla., has contract for stone work for \$850,000 ten-story Montgomery Building, being erected by Montgomery Building, Inc.; Lockwood, Greene & Co., Archts.-Engrs., 24 Federal St., Boston, Mass., and Spartanburg. (Other contracts lately noted.)

Tex., Garland—State National Bank let contract to George Hewitt, Dallas, Tex., for erection of \$30,000 bank building; 2 stories, brick, stone and wood joists, 28 x 80 ft., marble floors, steam heat; Flint & Broad, Archts., 311 Andrews Bldg., Dallas. (Lately noted.)

W. Va., Huntington—Coal Exchange Building Co., Inc., Abe Solof, Sec., reported to have let contract to Higginbotham & Jones, Charleston, W. Va., for erection of \$1,000,000 bank and office building, 4th Ave. and 11th St.; 14 stories, fireproof, reinforced concrete, steel, terra cotta, stone and brick; Gothic type; 325 offices; 4 elevators; Meanor & Handloser, Archts., Huntington. (Lately noted.)

W. Va., Huntington—Union Bank & Trust Co., Robt. L. Archer, Pres., reported to have let contract to Geo. A. Fuller Co., Fuller Bldg., New York City, for erection of 14-story bank and office building, 4th Ave. and 9th St.; cost about \$500,000; fireproof; Meanor & Handloser, Archts., Huntington. (Lately noted.)

Churches

Ala., Gadsden—North Gadsden Presbyterian Church let contract to G. H. Myrick, Gadsden, for erection of building at Washington St. and Lookout Ave.

Ala., Marion—First M. E. Church, South, A. F. Armstrong, interested, let contract to J. A. Wood, Marion, for erection of 2-story Sunday school annex; 33x73 ft., brick, cement and wood floors, brick and concrete foundation, composition roof; J. W. M. Kell, Archt., Selma, Ala. (Lately noted.)

Fla., High Springs—First Baptist Church, W. J. Priest, Chmn., Bldg. Comm., will erect church building and Sunday school annex by day labor; Colonial type, 64 x 78 ft., rough red brick with white art stone trim, cost \$21,000; Newbold L. Goin, Archt., Gainesville, Fla.

La., New Orleans—Church of Our Lady of the Holy Rosary let contract at \$166,495 to J. A. Petty, New Orleans, for erection of 76x106x146-ft. building, 3368 Esplanade Ave.; steel and concrete faced with pressed brick; limestone trim, copper dome, cork floors, built-up roof, steel sash, hot air heat; Rathbone DeBuys, Archt., Hibernia Bank Bldg., New Orleans. (Lately noted.)

Mo., Webster Groves (Ind. Branch St. Louis)—Presbyterian Church will erect Gothic type main auditorium on Lockwood Ave.; St. Louis limestone with Bedford stone trim; leaded glass; accommodate 1000; Albert B. Groves, Archt.-Constr.-Supervisor; Murch Brothers Construction Co., Contr., Ry. Exchange Bldg., St. Louis.

Okl., Anadarko—Presbyterian Church has completed excavation for basement of building, Fourth street and Broadway; auditorium, classrooms, gymnasium, lunch room, etc.; Rev. Robt. von Thurn, Pastor.

Tex., Ferris—Church of Christ, D. H.

Meyers, Chmn. Bldg., Comm., will erect \$10,000 building; H. E. Reeves, Ferris, is constructing concrete foundation. (Previously noted.)

Okl., Wewoka—Baptist Church, Rev. John M. Via, Pastor, let contract for excavation for \$25,000 building; 2 stories and basement, brick and concrete; G. S. Glenn, Archt., Wewoka; will let material contracts at once.

Tex., Robstown—First Methodist Church let contract at \$55,000 to William A. Orth, San Antonio, Tex., for erection of church and Sunday school building; semi-fireproof, reinforced concrete frame, brick and stone construction, hollow tile, concrete floors, 3 stories and part basement; Norris & Noonan, Archts., 6th floor Houston Bldg., San Antonio. (Lately noted.)

Tex., San Antonio—Brady Addition Catholic Church will erect \$70,000 Gothic type brick building, Sherman St. and Grace Ave.; furnishings to cost \$25,000; F. B. Gaenslen, Archt., 391 Larendon Bldg., Houston, Tex., and Bedell Bldg., San Antonio; A. F. Fuessel, Contr., San Antonio.

Va., Lynchburg—Hamilton Bros., Lynchburg, have contract at \$15,000 for erection of brick and wood joist synagogue; 2 stories, 40 x 60 ft., pine and concrete floors, concrete foundation, slate roof, metal ceilings and doors, ventilators; Heard & Chesterman, Archts., Lynchburg; excavation begun. (Lately noted.)

City and County

La., Opelousas—St. Landry Parish let contract at \$36,495 to St. Landry Lumber Co., Opelousas, for erection of brick and reinforced concrete annex to courthouse; 2 stories, tile and composition floors, concrete foundation, interior tile, metal doors, steel sash and trim, wire glass, slate roof; Herman J. Duncan, Archt., Alexandria, La. (Lately noted.)

Md., Baltimore—Bath and Field House—Board of Awards, Mayor Howard W. Jackson, Pres., will erect bath and field house at Druid Hill Park; cost about \$150,918; Josias Pennington and Pleasants Pennington, Archts., Professional Bldg.; construction by Park Board. (Lately noted.)

Mo., Carthage—Memorial Hall—City, C. F. Drake, Mayor, let following contracts in connection with completion of memorial and convention hall, Oak St. and Garrison Ave.: Wiring, Fred Hesser, Carthage; plastering at \$13,000, Harry J. O'Neill, Atchison, Kan., and Kansas City, Mo.; marble work, Arbosti Marble Co.; construction under supervision of Percy K. Simpson, both Carthage. (Previously noted.)

Okl., Tulsa—Police Station—City let contract at \$86,698 to J. W. Wilson, Tulsa, for erection of police station, Fourth and Elgin streets; Bedford stone, T-shape, 2 stories in part; drill, shower, boiler rooms, kitchen, garage, etc.; F. A. Dugan, Archt., Castle Bldg., Tulsa; cell equipment to be let later. (Previously noted.)

Okl., Tulsa—Fire Stations—City let contracts at \$9700 each to Stone & Johnson, Tulsa, for erection of 2 fire stations, 1 at 14th and Trenton Sts. and 1 in Owen Addition. Address The Mayor.

W. Va., Bluefield—City Hall—City, Clarence E. Ridley, City Mgr., let contract to H. H. Lucas, Bluefield, for erection of \$200,000 city hall; brick, 3 stories and basement, about 100 x 120 ft., Indiana limestone trim, steel beams, metal and lumber; composition, terrazzo and maple floors over metal lath and concrete, built-up roof, concrete and brick foundation, interior tile, vaults, ventilators, steel sash and trim, wire glass;

Wilbur T. Mills, Columbus, O., and Garry & Sheffey, Bluefield, Asso. Archts.; will let heating and lighting contracts March 11. (Lately noted.)

Dwellings

Ala., Jasper—Chas. B. Crow is about ready to purchase material for erection of \$14,000 residence; brick veneer with stucco gables, 54x74 ft., 2 stories, heart rift pine, 3/4-sawn oak and concrete floors, concrete foundation to grade; roofing to consist of 55 squares Richardsons 10x14 inch, "Super-Giant," 325 lbs.; interior tile, ventilators, ornamental terra cotta, steel sash and trim, wire glass, Dunham vapor system of heat; Bem Price, Archt., Birmingham, Ala.; owner builds. (Lately noted.)

Ark., Pine Bluff—Capt. M. W. Ware will erect \$10,000 residence Sixteenth and Linden streets; brick veneer and matt faced brick; will use foundation on site; J. L. Minoret, Pine Bluff, in charge of construction.

Fla., Jacksonville—Mrs. H. H. Bisbee let Arcola system of heating and plumbing contracts to A. F. Loupo and electrical work to O. L. Florria, for \$13,000 residence, to be erected by A. L. Clayton; brick veneer construction, wood floors, concrete foundation, asphalt composition roof, 2 stories; Roy Benjamin, Archt., all Jacksonville. (Lately noted.)

Fla., Miami Beach—Homer J. Taylor, East Liverpool, O., let contract to Alvin Sammons, Miami Beach, for erection of \$20,000 residence, 19th St. and Meridian Ave.; Spanish type, 10 rooms; W. F. Brown, Archt., Miami Beach.

Fla., St. Petersburg—C. Perry Snell has begun construction of Italian type residence on Coffee Pot Bayou; brick and interlocking tile, tile floors on first floor; Sparklin & Snell, Archts., St. Petersburg.

Fla., St. Petersburg—Dr. Ralph D. Murphy will erect hollow tile residence, 2028 North Shore Drive; Schooley-Murphy Co., Contr., St. Petersburg.

Ga., Augusta—A. P. Boardman let hot water heating and plumbing contracts to E. J. Erbeling, and electrical work to Brill Electric Co., for \$16,707 residence for which Sibert & Robinson has general contract; 2 stories, 62x41 ft., tile, concrete and oak floors, concrete foundation, slate roof; brick and stucco veneer, hollow tile backing and half timber; Willis Irvin, Archt., all Augusta. (Lately noted.)

Ky., Glomawr—Reliance Coal & Coke Co., will erect about 30 dwellings for employees; cost \$1000 each, 1 story, 28x28 ft., post foundations, 3-ply composition roof; construction by owner; material purchased. (Lately noted.)

La., Lake Charles—Croft Rushworth, Lake Charles, has contract for automatic indirect system of steam heat, electrical work and plumbing for \$80,000 brick veneer residence for Miss M. G. Gray, Vinton, La., which is under construction by W. J. Quick, Lake Charles; Favrot & Livaudais, Archts., Hibernia Bank Bldg., New Orleans, La.; dwelling about 40 per cent. complete. (Lately noted.)

La., New Orleans—Eureka Homestead Society will erect \$10,265 building, Claiborne and Fern Sts.; A. C. Babin's Sons, Contr., new Orleans.

Md., Annapolis—R. E. Flora let vapor heating contract to C. N. Joyce, Joyce Sta., Mace Arnold; lighting to Roddy Lighting Co.; plumbing to C. E. Franck, 118 Prince George St., both Annapolis; steel and beams to Dietrich Bros., 220 Pleasant St., Baltimore, Md.; for erection of brick residence, 46 Southgate Ave., for which Saml. B. Dove, 597 West St., extended, Annapolis, has general contract at \$22,675; dwelling to be 2

stories, 32.8x45.6 ft., oak and concrete floors, concrete foundation, interior tile, mail chute, wire glass, red tile roof; J. C. Grunkemeyer, Archt., Cincinnati, O.; contract for brick work also let. (Lately noted.)

Md., Baltimore—Wm. B. Wheeler, 1510 West Lanvale street, will erect \$10,000 brick residence, north side Southway east of Suffolk avenue; 2½ stories, 32x32 ft., slate roof, hot water heat; J. S. Downing, Archt.-Contr., Somerset Road, Baltimore.

Md., Baltimore—John J. Dubbelde, 728 N. Howard St., will erect 1 three-story and 23 two-story brick dwellings, N. W. cor 29th and Oak Streets; 25 x 40 ft. 25 x 34 ft., 22 x 34 ft. and 21 x 34 ft.; slag roofs, hot water heat; total cost \$120,000; C. G. Kain, Archt.-Contr. (Lately noted.)

Md., Baltimore—John C. Kump, 337 St. Paul Place, will erect 5 dwellings on south side and 5 on west side Woodland Ave., west of Harford Rd.; 1½ stories, frame, 24 x 28 ft., shingle roofs, furnace heat; total cost \$35,000; plans and construction by owner.

Md., Baltimore—J. T. McAvoy, 2601 Loyola Strathway, will erect 2 frame dwellings, N. W. cor. Oakley and Poe Aves.; 2 stories, 23 x 34 ft., slate roofs, steam heat; total cost \$10,000; owner builds.

Md., Baltimore—M. Pendergast will erect \$10,000 residence, 4008 Alto Ave.; 2 stories, 27 x 44 ft., frame, slate roof, hot water heat; L. Schoenlein & Son, Archts.-Contrs., 2208 Boyer St., Baltimore.

Md., Frederick—Chas. H. Kehne has started concrete block foundations for 4 dwellings on W. 5th St. near Elm St.; 2 stories, 28x42 ft., hardwood and yellow pine floors, Barrett roofs; steam heating and plumbing to Hahn & Rowe; Thos. J. Kemp, Archt., all of Frederick. (Lately noted.)

Mo., Springfield—Atty. S. C. Bates will erect brick residence, 400 block South Boulevard; McFarland Construction Co., Contr., Springfield.

Mo., St. Louis—W. E. Muehlenbrock, 1015 McCausland street, will erect \$10,000 residence, 1019 McCausland street; 2 stories, 30x34 ft., brick, slate roof, hot water heat; H. Schaumburg, Archt., 3631 Connecticut street; Ruhaack & Co., 2623 Texas street, Contrs., all St. Louis.

Mo., University (Station St. Louis)—Nathan Maskowitz will erect \$15,000 brick residence, 7069 Delmar Blvd.; 2½ stories, 32x40 ft., slate roof, hot water heat; Maritz & Young, Archts., Chemical Bldg.; J. M. Highbee, Contr., 4164 Delmar Blvd., St. Louis.

Mo., University (Station St. Louis)—N. Pearlstein will erect \$15,000 brick residence, 7101 Delmar Blvd.; 2½ stories, 32x36 ft., slate roof, hot water heat; Maritz & Young, Archts., Chemical Bldg.; J. M. Highbee, Contr., 4164 Delmar Blvd., St. Louis.

N. C., Charlotte—Geo. W. Graham will erect \$40,000 residence on Providence Rd.; 2 stories, 8 rooms; W. H. Peeps, Archt.; Blythe & Isenhour, Contrs., both Charlotte.

N. C., Charlotte—J. Leake Spencer will erect \$35,000 residence on E. Morehead St.; 2 stories, 8 rooms, brick and hollow tile; F. L. Bonfoey, Archt.; Blythe & Isenhour, Contrs., both Charlotte.

N. C., Charlotte—J. M. Oldham will erect \$30,000 residence on E. Morehead St.; 2 stories, 7 rooms; Louis H. Asbury, Archt.; Blythe & Isenhour, Contrs., both Charlotte.

N. C., Greensboro—Mrs. L. J. Brandt let contract to Harwood & Stutz, Greensboro, for erection of two \$7000 dwellings, 720-22 Percy St.; frame, 2 stories, 30 x 45 ft., hardwood floors, brick foundations, composition roofs; heating, lighting and plumbing

in general contract; no architect. (Lately noted.)

N. C., Winston-Salem—Modern Homes Corp., W. E. Burke, Pres., P. O. Box 1700, has 4 frame and stucco dwellings under construction as first unit of 25 dwellings to be erected at total cost of \$92,000; 1 and 2 stories, various dimensions, hardwood and pine floors, brick foundations, composition shingle roofs, interior tile, plaster board; Luther Lashmet, Archt., Atlanta, Ga.; construction by day labor.

S. C., Columbia—Julius H. Walker & Co. let electrical work to B. C. Electric Co. and plumbing to T. W. Tompkins for dwellings at 2203 Blossom St. and 7-8 Myrtle Court; cost \$6000 each, 1 story, clear and red beech floors, brick foundations, Flintkote roof; owner builds. (Lately noted.)

Tenn., Memphis—Mrs. Rose Raymond will erect 2-story brick veneer residence, Decatur St. and North Parkway; dark brick with stone trim, composition shingle roof, hardwood floors, hot water heat; garages; Estes W. Mann, Archt., Fred Johnson, Contr., both Memphis.

Tenn., Nashville—G. A. Puryear will erect 2-story Colonial brick residence off Concrete Blvd.; 10 rooms and 3 baths; Chas. A. Ferguson, Archt., Nashville; all contracts let.

Tex., Houston—Russell Brown Co., will erect \$15,000 residence, 1503 Calumet St.; 10 rooms, 2 stories; owner builds.

Tex., Lubbock—Raymond Barrier will erect 7-room residence, 10th St. and Avenue S; Abe Hensley, Contr., Lubbock.

Tex., Lubbock—J. D. Quick will erect 10-room, 2-story residence on Main St.; Abe Hensley, Contr., Lubbock.

Tex., Waco—A. R. Wilson, Pres. Amicable Life Insurance Co., let contract to Sparks & Williamson, Waco, for erection of \$30,000 residence, Sixth street and Park avenue; English Tudor type, tile and stucco, 2 stories and attic, 10 rooms, slate roof; garage in rear; Baugh & Lovell, Archts., Waco.

W. Va., Wheeling—Miss Alma and Miss Cora Happy will erect \$12,000 brick and tile residence, Linden and Walnut avenues, Edgewood; Geo. W. Petticord, Contr., Wheeling.

Government and State

Ark., Marianna—Post Office—Chas. G. Taylor and A. W. Moody, Marianna, have excavation contract for \$50,000 post office for which Algernon Blair, Montgomery, Ala., has general contract; rough lumber to Home Lumber Co.; Noone & Doubleday, plumbing, both Marianna; building to be red face brick, 62x64 ft.; 20x60-ft. basement to contain fuel room, steam heating plant, lockers, etc.; plans by Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C. (Lately noted.)

N. C., Bodie Island—Coast Guard Headquarters, W. V. E. Jacobs, Capt., U. S. Coast Guard, Act. Commandant, Darby Bldg., Washington, D. C., let contract at \$23,996 to Jos. B. Dailey, Manteo, N. C., for erection of 2-story dwelling, and accessories, at Bodie Island Coast Guard Station; dwelling to be 26 x 40 ft., maple floors, concrete foundation, asbestos roof, hot water heat, 2 baths, electric lights and generating plant. (Lately noted.)

Hospitals, Sanitariums, Etc.

N. C., Winston-Salem—Executive Comm. of Board of Trustees of Methodist Children's Home awarded contract to Fogle Bros. Co., Winston-Salem, to erect \$40,000 brick hospital to contain 28 beds. (See Buildings Proposed—Miscellaneous.)

Tex., Houston—Drs. Howard Thorning, Stokes & Cruse let contract to Southwestern Construction Co., Houston, for erection of clinic building.

Hotels and Apartments

Fla., West Palm Beach—J. H. Scott, J. R. Anthony and W. D. Manly, awarded contract to Chalker & Lund, Palm Beach to erect 4-story store and apartment building at Bradley Place and Sunset Ave., to cost \$250,000; Spanish type, contain 40 apartments, reinforced concrete construction, fireproof, concrete foundation, concrete flooring, J. M. and tile roofing, hollow tile, metal doors, ventilators, steel sash and trim, wire glass, gypsum blocks; Southern Electric Service, electric lighting and heating in rooms; Paul Mead & Co., plumbing both West Palm Beach; Otis Elevator Co., Miami, electric elevator; Martin L. Hampton, Archt., Miami. (Lately noted.)

Mo., St. Louis—L. Cuba, 2859 Texas St., will erect 2-story brick tenement building at 3231-31A-33-33A Pennsylvania St., to cost \$10,000; 36 x 60-ft., hot air furnace heat. Owner is Archt. and builder.

Mo., St. Louis—C. F. Pralle, 3457 Iowa St., will erect two 2-story brick tenement buildings at 3321-21A-23-25-27 S. Thirteenth St., to cost \$18,000; each 34 x 49 ft., tar and gravel roofs, hot air furnace; Hy Luekmann, Contr., 3442 Iowa St.; C. T. Pralle, Archt., both of St. Louis.

Mo., St. Louis—C. Kloster, 4442 Virginia St., will erect two 2-story brick tenement buildings at 5215-15A S. Grand St., to cost \$14,000; each 30 x 46-ft., composition roof, furnace heat; Kloster & Co., Contrs., 4442 Virginia St.

Mo., St. Louis—A. Lerner, 6229 Delmar St., will erect two 2-story brick tenement buildings at 2059 Allen St. and 1916 McNair St., to cost \$20,000; each 38 x 45-ft., composition roof, steam heat; West End Inv. & Construction Co., Builder and C. H. Thurston, Archt.; both 6229 Delmar St., St. Louis.

Mo., St. Louis—E. Rohrkasse, 4565A Clar-St. will erect 2-story brick tenement building at 4424 Floriss Place to cost \$10,000; 33x38 ft., slate roof, hot air heat; C. Spoenen, Contr., 4142 Farlin St.; C. Merlert, Archt., 5242 Wren St.; both St. Louis.

Tenn., Memphis—Southern Hotel Co. (W. T. Halliday and associates) awarded contract to Spencer Turbine Co., Hartford, Conn., to install vacuum cleaning system; American Mailing Device Corp., 203 E. 12th St., New York City, has contract for installation of mail chutes; both companies are represented by Noble M. Crawford Co., Memphis; Walter W. Ahlschlaeger, Archt., 65 Huron St., Chicago, Ill. (Lately noted.)

Tex., San Antonio—Thos. Faglesong will erect 16-room apartment house on Mistletoe Ave. between Michigan and Grant Aves. to cost \$12,000; L. D. Middleton, Contr., San Antonio, Tex.

Miscellaneous

Okla., Tulsa—City Market—Producers Co-operative Co., c/o D. R. Rees, Box 1141, contemplate erection of fireproof market at Boulder and Archer Sts., to cost \$70,000; 1-story, 200x140 ft., brick, concrete foundation, asphalt and gravel roof, concrete floors, steam heat, steel sash, mortar colors, plate glass, floor hardener, screens, elevators; private plans; owner builds. (Lately noted.)

S. C., Laurens—Boise Terre Country Club, Board of Directors, awarded contract to J. R. Tucker, Clinton, S. C., at \$9570 to rebuild clubhouse recently burned. (Lately noted.)

Tex., Dallas—Reynolds Presbyterian Orphanage, c/o Roland Martin, Magnolia Bldg., has plans by David S. Castle, 1201 Mercantile Bank Bldg., Dallas, for erection of dormitory at Reynolds Memorial Presbyterian basement, 63 x 100 ft., fireproof, brick and concrete construction, concrete foundation, composition roofing, wood construction over concrete flooring, hollow tile, ventilators; contract for excavating awarded to Vilbig Construction Co., Dallas. Construction by day labor. (Lately noted.)

Tex., San Antonio—Geo. Willis, Archt., Chandler Bldg., awarded contract to L. T. Wright & Co., 312 City Natl. Bank Bldg., San Antonio, to remodel and erect additions to Chandler Home on West French Place; work will consist of addition of 20 rooms, and remodeling of interior and exterior; cost \$60,000, 80x44-ft., 2 stories and basement, hollow tile, metal ceilings, interior tile, reinforced concrete and brick construction; Mrs. R. S. Ragsdale, Supt. (Lately noted.)

Tex., Waco—Board of Trustees of Methodist Orphans' Home, Dr J. W. Torbet, Chmn., awarded contract to G. J. Olson, Waco, at \$26,480, to erect 3-story brick addition to school and chapel building; Hill Brothers, Waco, plumbing and heating, at \$5416; Milton W. Scott, Archt., Waco, Tex. (Lately noted.)

Tex., Waxahachie—Waxahachie Country Club, Frank Qualte, Sec.-Treas., awarded contract to R. L. Lowry, Waxahachie, to erect \$10,000 clubhouse; 1½ stories and basement; Dutch Colonial style; Mr. Kinney, Longview, Tex., is laying 9-hole golf course. (Lately noted.)

Railway Stations, Sheds, Etc.

Tex., Dallas—Missouri-Kansas-Texas R. R. Co., W. W. Whitenon, Vice-Pres., St. Louis, Mo. awarded contract to Bellows-Maclay Construction Co., Dallas, to erect 8-story warehouse building to cost \$400,000; 7 stories, basement and mezzanine; cement finish, concrete, terrazzo flooring; 100x200 ft., tar and gravel roof, caissons to solid rock foundation, hollow tile, interior tile, metal doors, vaults, mail chutes, steel sash and trim, wire glass, reinforced concrete and steel construction, 2 freight elevators; Frank Ringer, Ch. Engr., St. Louis; A. L. Sparks, Archt., c/o Ch. Engr. (Lately noted.)

Schools

Ga., Thomasville—Board of Education, E. R. Jerger, Pres., c/o B. B. Broughton, Supt. of Schools, awarded contract to Norman Construction Co., Moultrie, Ga. at \$106,300 to erect Thomasville High School building; brick and wood joist construction, maple and cement flooring, composition roofing, 2 stories and basement; heating, plumbing and electric included in general contract; A. Ten Eycke Brown, Archt., Atlanta, Ga. (Lately noted.)

La., Baton Rouge—Louisiana State University, R. L. Himes, Sec. Bldg. Comm., awarded contract to Fischer Heating Co., Memphis, Tenn., to install heating equipment in new chemistry building. (Lately noted.)

N. C., Maiden—Board of Trustees awarded contract to J. J. Stroud, Southern Pines, N. C. at \$60,800, to erect semi-fireproof school building; 2 stories and basement, 150x143 ft., gum and concrete flooring, composition built-up roof, concrete foundation; Benton & Benton, Archts., Wilson, N. C. (Lately noted.)

N. C., Winston-Salem—Forsythe County Board of Education, awarded contract to Frank L. Blum & Co., Winston-Salem, at \$76,657, to erect \$80,000 school building at Oldtown; 2 wings 1-story and 1 wing 2-stories; 3 wings 140x40 ft.; brick and timber con-

struction, Barrett specification and slate roof, concrete and brick foundation, gum flooring, hollow and interior tile, ventilators; Northrup & O'Brien, Archts., Winston-Salem, N. C. (Lately noted.)

Okla., Bacone—J. H. Reddick, Contr., Fort Smith, Ark., and Muskogee, Okla., has awarded following sub-contracts on kitchen and dining room at Bacone University; Dyle Brothers, millwork; Sam Wallace, painting; both Fort Smith, Ark.; Wagoner Brick Co., Muskogee and Wagoner, brick; Builders Material Co., steel; O'Connor Co., plumbing and heating; Peabody Electric Co., wiring; Chas. W. Dawson, Archt.; all Muskogee. (Lately noted.)

S. C., Clemson College—Clemson College awarded contract to C. M. Guest, Anderson, S. C., to enlarge present auditorium and develop space underneath for physics, laboratories and classrooms; heating, plumbing and lighting by owners; cost \$40,000; brick and stone, slate roof, steel trusses, wood, concrete and tile floors, stage with scenery, benches; Rudolph E. Lee, Archt., Clemson College, S. C.

Tenn., Chattanooga—Bright School awarded contract to Mark Wilson, Chattanooga, to erect \$50,000 building on Fort Wood St.; brick construction, 2-stories, six classrooms, auditorium, manual training department and kindergarten; R. H. Hunt Co., Archt., Chattanooga, Tenn. (Lately noted.)

Tenn., Chattanooga—School Board, Fred A. Frazier, Chmn., awarded contract to A. F. Hahn, Chattanooga, at \$54,125, to erect addition to Third District grammar school; Fred Cantrell, heating at \$5070 and plumbing at \$2489; Terrell Electric Co., wiring at \$780; Kewanee Boiler Co., boiler installation at \$300; all Chattanooga; addition will be first unit of plant, will be 3 stories and contain 10 classrooms, principal's office, library and teachers' rest room space; R. H. Hunt Co., Archts., Chattanooga, Tenn. (Lately noted.)

Tenn., Memphis—School Board awarded contract to B. W. Coker, Memphis, at \$39,446, to erect 6-room addition to Cummings Grammar School; Memphis Heating Co., heating at \$12,315; Rhodes Bros., plumbing at \$1024; McCrory Electric Co., wiring at \$498; Hubert McGhee, Archt., all Memphis.

Tenn., Nashville—Board of Education, Building Comm., Baxto Cato, Chmn., awarded contract to John Moore, c.o. Arcade, Nashville, to erect Fehr School building at Fifth Ave. and Garfield St.; brick, stone trimmings; Dougherty & Gardner, Archts., Stahlma Bldg., Nashville, Tenn. (Lately noted.)

Tenn., Tullahoma—Grand Lodge, Knights of Pythians of Tennessee, W. M. Cameron, Chmn. Board of Trustee (Ovoco) Tullahoma, awarded contract to A. Y. Bailey, Chapel Hill, Tenn., to erect Fox Memorial Building at Ovoca, near Tullahoma; 90x110 ft., 2 stories, brick construction, concrete foundation, wood and concrete flooring, composition roofing, hollow and interior tile, vaults, ventilators; W. L. Sanders, Lewisburg, Tenn., electric lighting and heating and plumbing; R. H. Hunt Co., Archts., James Bldg., Chattanooga, and Dallas, Texas. (Lately noted.)

Tex., Austin—Board of Missions of M. E. Church, South, Nashville, Tenn., awarded contract to Henry E. Wattinger, Austin, at \$98,814, to erect \$125,000 dormitory at 29th and Guadalupe Sts.; 3 stories and basement, fireproof, white oak hardwood flooring, exterior of classic type architecture, modeled brick, white stone trimmings, 62x137 ft.; Jno. L. Martin, Austin, plumbing, electrical wiring and steam plant installation, at \$19,800; Roy L. Thomas, Austin

and Sanguinet, Staats & Hedrick, Fort Worth, Asso. Archts.; Mrs. T. A. Brown, Sec. & Chmn. Building Board, Austin. (Lately noted.)

Tex., Bedias—School Board awarded contract to Johnson & Marshal, to erect 3-story brick school building to cost \$42,000; Jno. Brownlie, Archt., Madisonville, Tex. (Previously noted.)

Va., Pulaski—Pulaski District School Board awarded contract to J. D. Hufford, Pulaski, at \$71,636, to erect elementary school building on First St. south and Valley St.; contract includes heating and plumbing; 17 classrooms, auditorium and principal's office; 1-story, brick. (Lately noted—vote \$75,000 bond issue.)

Va., Woodlawn—Carroll County Board of Education, Hillsville, Va. awarded contract to R. S. Rice, Petersburg, Va., to erect elementary school building; 9 rooms with auditorium to seat 500; frame construction, stucco exterior, steam heat, electric lighting; Branch & Andrews, plumbing; Kitchen & Wells, heating; both Petersburg, Va.; J. E. Cousin, Jr., Prince George, Va., well and water supply; Fred A. Bishop, Archt., Petersburg. (Lately noted.)

W. Va., Limestone—County Supt. of Schools, Moundsville, W. Va., awarded contract to W. H. Batson, Moundsville, to erect consolidated school building.

Stores

Fla., Clearwater—Mrs. W. T. Harrison and Mrs. Frank J. Booth awarded contract to J. C. Harner Construction Co., Orlando, Fla., to erect brick and tile building to cover block between Cleveland and Park Sts., Garden Ave. and Atlantic Coast Line railroad; to be known as Scranton Arcade.

Fla., Miami—N. B. T. Roney will erect 4 stores at 604 Collins Ave.; cement block with concrete finish; Robt. A. Taylor, Archt. and Contr.

Fla., South Jacksonville—Mrs. Geo. D. Rickerson awarded contract to H. D. Hamilton, Jacksonville, to erect 2-story store and apartment building at Forest and Pine Sts.

La., Homer—J. R. Madden awarded contract to E. C. McClannahan, to erect brick store building.

La., New Orleans—Emile Well, Archt., Whitney Bank Bldg., awarded contract to J. A. Petty, New Orleans, to make extensive interior alterations and new store fronts for Myron Millinery Shop at 143 Baronne St.; cost \$10,000.

N. C., Charlotte—Ashworth Bros. Inc., will erect 2-story brick store building on South Graham St., to cost \$30,000; 48x100 ft.; C. C. Hook, Archt.; Blythe & Isenhour, Contrs.; both Charlotte, N. C.

N. C., Charlotte—W. T. McCoy & Co. awarded contract to Blythe & Isenhour, Charlotte, to erect building at 409 South Tryon St.; cost \$185,000; 200x42 ft., brick and slow burning construction, red tapestry brick front with limestone trimmings, plate glass show windows, 6 stories and basement; C. C. Hook, Archt., Charlotte. (Lately noted.)

Okla., Tulsa—Vandever Dry Goods Co., W. A. Vandever, Pres., awarded contract to Rucks & Brandt, Tulsa, to erect 6-story store building on Fifth St.; 60x135 ft., cost \$250,000, reinforced concrete trimmed with stone, brick and terra cotta; Atkinson & Olston, Archts., Tulsa, Okla.

Tenn., Memphis—F. J. Ozanne & Co. Contrs., will erect for Chas. Haase, a 2-story brick veneer building to contain 6 store rooms and cost \$40,000.

Tenn., Memphis—Jno. Sansome awarded contract to J. Y. Callihan, Memphis, to erect brick store building at Linden Ave. and Wellington St., cost \$14,000; 75 x 45 ft.,

concrete brick and stone construction, built-up roofing, concrete and wood flooring, concrete foundation, metal ceilings and doors, ventilators, ornamental terra cotta; will contain 3 storerooms; Dowkins Electric Co., electric lighting; Dan McGrath, plumbing; Spencer & Phillips, Archts., all Memphis. (Lately noted.)

Tenn., Memphis—Union & Planters' Bank contemplates subdividing, remodeling and re-decorating store now occupied by Barker's Bakery; plans include installation of elevator, building a stairway to basement; E. L. Harrison, Archt.; E. J. Pearson, Contr., both Memphis.

Tex., Austin—Donnelly & White awarded contract to A. W. Johns, Austin, to erect 2-story brick building to contain 5 store compartments each 25x92 ft.; cost \$20,000.

Tex., Sherman—Hall & Hare Insurance Co. awarded contract to J. A. Simmons Lum-

ber Co., Sherman, to erect 1-story brick building on Wall St. to contain 10 stores; 45x144 ft., composition tile and gravel roofing, concrete floors, metal ceilings, interior tile, ornamental terra cotta, water and gas piping for 10 stoves; Clyce & Rolfe, Archts., Sherman, Tex. (Lately noted.)

Va., Bristol—Cowan Brothers have purchased property on State St., and will erect 3-story business building; 44x125 ft., G. W. Burnett, Archt.; D. W. Wagner, Contr., both Bristol.

Va., Richmond—F. W. Woolworth Co., New York City, awarded contract to Jno. T. Wilson Construction Co., Richmond, to erect building on East Broad St.; 4 stories, Carneal & Johnston, Archts., Richmond.

W. Va., Morgantown—A. R. Price & Co. awarded contract to Cole Bros. Construction Co., Morgantown, to erect 3-story and base-

ment department store building to cost \$50,000; 42x60 ft., fireproof, concrete foundation, concrete and maple flooring, hollow tile, metal ceilings, steel sash and trim, wire glass; construction will start April 1st; Carl Reger, Archt., Morgantown. (Lately noted.)

Warehouses

Tex., Dallas—Sanger Brothers awarded contract to W. H. King, 410 Andrews Bldg., Dallas, at \$47,343, to erect warehouse at corner Austin and Wood Sts., to be occupied by Western Electric Co.; cost \$65,000, 3 stories, 100x100 ft., fireproof, concrete frame construction, reinforced concrete foundation, concrete flooring, hollow and interior tile, metal doors, 2 vaults, 6 ventilators, steel sash and trim, wire glass, tar and gravel on concrete slab roofing; The Hamilton Co., heating and plumbing; Riggsby Electric Co., electric lighting; Lang & Wittichell, Archts., all Dallas. (Lately noted.)

MACHINERY, PROPOSALS AND SUPPLIES WANTED

Air Compressor.—See Mining Machinery.
Automobile Busses.—Board of Awards, F. A. Dolfield, Register, City Hall, Baltimore, Md.—Bids until March 19 for one to three automobile busses complete for the Department of Education; John H. Roche, Sec. Board of School Commrs.

Belts (Rubber and Fabric).—Southeastern Industrial Sales Agency, High Point, N. C.—To correspond with manufacturers of rubber and fabric belts, with view to representation on a strictly brokerage basis.

Bank Slag.—Ohio County Commrs., Wheeling, W. Va.—Bids until March 25 to furnish, unload, haul and distribute 18,000 tons of bank slag for road work; A. C. Hoffman, County Engr.

Beams and Angles.—See Building Materials.

Brick (Face).—See Building Materials.

Burners (Oil).—R. P. Freeze, Sec., Freeze-Bacon Hosiery Mills, Hendersonville, N. C.—To purchase oil burner to use in boiler fire box instead of coal.

Bobbin Plant Equipment.—W. P. Beall, Box 122, Macon, Ga.—Data and prices on equipment for bobbin plant.

Boilers.—Hackley Morrison Co., Inc. (Mchy. Dealers) 1708 Lewis St., Richmond, Va.—To purchase two B & W water tube boilers, 350 h.p. each, for waste heat, 160 lbs. pressure, width of furnaces not over 7 ft. 6 in. each, second-hand.

Bridge.—State Highway Comm., Raleigh, N. C. Details under Construction News—Bridges, Culverts, Viaducts.

Bridge.—State Highway Dept., Jefferson under Construction News—Bridges, Culverts, Viaducts.

Bridge.—State Road Comm., Charleston, W. Va., will build 21 bridges. Details under Construction News—Bridges, Culverts, Viaducts.

Bridges, etc.—State Road Dept., Tallahassee, Fla., will build 11 bridges and 2 culverts. Details under Construction News—Bridges, Culverts, Viaducts.

Bridge.—State Highway Dept., Jefferson City, Mo. Details under Construction News—Bridges, Culverts, Viaducts.

Bridge.—Clarke County, Athens, Ga. Details under Construction News—Bridges, Culverts, Viaducts.

Bridge.—City of Charlotte, N. C. Details under Construction News—Bridges, Culverts, Viaducts.

Bridge.—City of Baltimore, Md. Details under Construction News—Bridges, Culverts, Viaducts.

Bridge.—State Highway Dept., Columbia,

S. C. Details under Construction News—Road and Street Construction.

Bridge.—City of Bishopville, S. C. Details under Construction News—Road and Street Construction.

Bucket (Clam Shell).—Hackley Morrison Co., (Mchy. Dealers) 1708 Lewis St., Richmond, Va.—To purchase clam shell bucket.

Building Material.—Jas. Stewart & Co., Inc., 402 Keyser Bldg., Baltimore, Md., is estimating on construction of Gwynns Falls High School and desires estimates on all lines of work including alternates until Mar. 18th.

Building Materials.—Ashland Bakery, O. C. Feuchtenberger, Mgr., Ashland, Ky.—Prices on store front, electric lighting equipment, face brick, etc.

Building Materials.—Joseph Stolz & Son, Inc., Commerce Ave., Highbridge Station, New York.—Prices f.o.b. cars New York on structural steel I beams, channels, H columns, "Bethlehem" girder beams and angles; submit stock lists.

Burner (Oil).—J. H. Byrd, M. D., 705 St. Paul St., Norfolk, Va.—To purchase oil burner for heating stoves of various sizes and makes; dispensing with the use of coal.

Cableway.—Hackley Morrison Co., Inc., (Mchy. Dealers) 1708 Lewis St., Richmond, Va.—To purchase cableway.

Cans (Tin).—H. H. Peacock, Eastman, Ga.—Prices on 50,000-No. 2 tin cans for canning plant; correspond with manufacturers.

Cars (Tram and Rails).—See Mining Machinery.

Cars (Dump).—R. E. Boggs (Mchy. Dealers) 1315 Age Herald Bldg., Birmingham, Ala.—Prices on approximately twenty 2 way, 12, 16 or 20 yd, standard gauge, air dump, air brake, dump cars; state make, condition, location; Alabama delivery.

Cartons (Pasteboard).—Harry Raymond, High Point, N. C.—To purchase pasteboard cartons in quantities, for the packing of radio cabinets.

Cash Register.—Stonewall Service Station, H. C. McInvaill, Mgr., Route No. 1, Conway, S. C.—To purchase second-hand McCaskey Acct. or National cash register.

Cement Gun.—Chas. B. Crow, Jasper Ala., To purchase secondhand cement gun, with or without portable air compressor.

Cement.—Board of Awards, F. A. Dolfield, Register, City Hall, Baltimore, Md.—Bids until March 19 to furnish and deliver cement; J. Reese Pitcher, City Purchasing Agent.

Channels (Steel).—See Building Materials.

Container (Cardboard).—Tolon, Tellex & Prieto, Manzana De Gomez 314, Habana, Cuba.—To correspond with manufacturers of special cardboard milk bottle.

Containers (Pulp Board).—Gibsonville Hosiery Mills Co., A. B. Owen, Sec., Gibsonville, N. C.—To correspond with manufacturers of pulp board shipping containers also stapling apparatus for putting cartons together.

Cement (Portland).—Board of Aldermen, Maxton, N. C.—Bids until March 13 for 900 to 1500 bbls. Portland cement for street paving.

Derrick.—Joseph Stolz & Son, Inc., Commerce Ave., Highbridge Station, New York. One hand power guy derrick, approximately 6 ton capacity; submit descriptive matter.

Dough Mixing Machines.—Dr. J. Brouwer, Mazon H. Altos, Havana, Cuba.—To correspond with manufacturers of dough mixing machines.

Dredge (Suction).—D. C. Elphinstone (Mchy. Dealers), 408 Continental Bldg., Baltimore, Md.—To purchase one 20-24 in. suction dredge for use in New York waters.

Dredging.—Warren County Levee Board., McMinnville, Tenn. Details under Construction News—Miscellaneous Construction.

Drills (Air).—See Mining Machinery.

Engine (Crude Oil).—Laurel Falls Roller Mills, Lexington, S. C.—To purchase 50 h.p. crude oil engine.

Engine.—A. C. Love Co. (Contractors' Equipment), Huntington, W. Va.—To purchase three drum hoisting engine about 8x10 with swinger and boiler complete.

Electric Lighting Equipment.—See Building Materials.

Engine (Double Drum).—Hackley Morrison Co., Inc., (Mchy. Dealers) 1708 Lewis St., Richmond, Va.—To purchase double drum engine.

Engine and Generator.—City of Sarasota, Fla., E. J. Bacon, Mayor. Bids until March 24 for the following: separate bids for different sizes between 600-750 h. p. Diesel oil engine (one size to be purchased) direct connected to alternator and exciter 2300 volt, 400 to 500 k.w. at 80 per cent power; generator and panel complete for synchronizing with other units; delivered and erected on foundations furnished by city.

Filtration and Pumping Plant.—City of

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Chatham, Va. Details under Construction News—Water Works.

Fire Fighting Equipment.—City of Waycross, Ga., Walter E. Lee, Clk. Bids until March 25 for one 750 gal. per min. triple combination pumper, chemical engine and hose motor car, not less than 100 h.p., equipped with pneumatic tires; also 3000 ft. of 2½-in. solid multiple woven standard fire hose.

Gates (Regulating).—United States Engineer Office, Florence, Ala.—Bids until April 22 to furnish and erect 58 structural steel regulating gates for Wilson dam, Tennessee River, near Florence.

Generator.—Loreauville Sugar Co., Inc., Loreauville, La.—To purchase one 60KW 3 phase, 60 cycle, 440 volt generator with exciter and switchboard with instruments.

Grading.—City of Baltimore, Md. Details under Construction News—Road and Street Construction.

Grading.—Dist. Commrs., Washington, D. C. Details under Construction News—Road and Street Construction.

Gravel.—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, La.—Bids until April 3 to furnish gravel for 8 mi. road in Vernon Parish; plans etc., on file; J. M. Fourmy, State Highway Engr.

Gravel.—Louisiana Highway Comm., W. T. Peterman, Chrmn., Raymond Bldg., Baton Rouge, La.—Bids until March 18 to furnish approximately 4204 cu. yds. washed gravel, \$412 cu. yds. of 40 percent sand-clay gravel, or as alternate 12,616 cu. yds. of 60 percent sand-clay gravel for surfacing of Fed. Aid Project 118, Monroe-Rayville Highway; J. M. Fourmy, State Highway Engr.

Handles (Broom).—John J. Cizek, Germania, Pennsylvania.—Prices and data on the manufacture of broom handles.

Miscellaneous Supplies.—Jacobo Praschnik, Havana, Cuba.—To correspond with manufacturers of hardware, toys, etc., with view to representation.

Heating Plant.—Ashland Bakery, O. C. Feuchtenberger, Mgr., Ashland, Ky.—Prices on heating plant.

Hydraulic Mining Equipment.—See Mining Machinery.

Levee Construction.—Hidalgo Irrigation Dist., Mercedes, Tex. Details under Construction News—Drainage and Irrigation.

Lumber.—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Bids until March 17 to furnish white oak timbers. Blank forms and information (Circular 1597) on application to offices of Panama Canal, Asst. Purchasing Agents at Fort Mason, San Francisco, Cal.

Mattresses.—Board of Awards, F. A. Dolfeld, Register, City Hall, Baltimore, Md. Bids until March 19 to furnish 150 mattresses to Bayview Asylum; George R. McCleary, Supt.

Metal Spinnings and Stampings.—S. F. Pirkle, Union Point, Ga.—To contract for the manufacture of metal lamp collars.

Mining Machinery.—The Unaka Mining Co., Asheville, N. C. To purchase mining machinery including small air compressor, air drills, tram cars and small rails, trucks, equipment for hydraulic mining and ore washing machines.

Miscellaneous Supplies.—Sherman Callaway, Pineola, N. C.—To purchase supplies for a five and ten cent store.

Miscellaneous Supplies.—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C. Bids until March 18 to furnish: Iron and steel, ridge roll, wire; galvanized pipe, bronze, copper, brass tubing, Manila rope, nails, window glass, lamp

chimneys, rubber hose, leather belts, asbestos and rubber packing, asbestos gaskets, oakum, hand trucks, riveting forges, steel dies, pressure gauges, wood and steel blocks, soda ash, etc. Blank forms and information (Circular 1594) on application to offices of Panama Canal, Asst. Purchasing Agents at Fort Mason, San Francisco, Cal.

Miscellaneous Supplies.—James R. Criss, Adamston, W. Va.—To correspond with manufacturers of silk goods, hosiery, dress patterns, waists, underwear, etc.

Mixer (Concrete).—Chas. B. Crow, Jasper, Ala.—To purchase small concrete mixer, about 1/5 or 1/8 yd. capacity, operating mechanism to be 220-250 volt, Universal wound electric motor, durable enough to withstand exposure in all kinds of weather, as well as mine conditions; portable, which may be taken into coal mine with not more than 4½ ft. of head room.

Motor (Electric).—Savannah Handle Co., Savannah, Ga.—To purchase 5, 7½ or 10 h.p., A. C. motor, 2 phase, 60 cycle, 220 volts; used equipment.

Motor Generator Sets.—Moorhead Electric Machinery Co., 127 Water St., Pittsburgh, Pa.—Data and prices on used motor generator sets as follows two kw., 256 V.D.C. to 2300 volt, 3 phase, 60 cycle, synchronous complete with panels and exciters.

Motors, etc.—Loreauville Sugar Co., Inc., Loreauville, La.—To purchase one 40 h.p., two 20 h.p., one 10 h.p., and one 5 h.p., 3 phase, 60 cycle, 440 volt motor and starting box.

Ore Washing Machines.—See Mining Machinery.

Paving.—Town of Cherryville, N. C. Details under Construction News—Road and Street Construction.

Paving, etc.—City of Huntington, W. Va. Details under Construction News—Road and Street Construction.

Paving.—City of Ashland, Ky. Details under Construction News—Road and Street Construction.

Paving, etc.—Town of Benson, N. C. Details under Construction News—Road and Street Construction.

Paving, etc.—Town of Maxton, N. C.—Details under Construction News—Road and Street Construction.

Paving, etc.—City of Charlotte, N. C. Details under Construction News—Road and Street Construction.

Paving.—Montgomery County, Montgomery, Ala. Details under Construction News, Road and Street Construction.

Paving.—City of Baltimore, Md. Details under Construction News—Road and Street Construction.

Pipe (Cast Iron).—See Water Works Improvements.

Plumbing.—Treasury Dept., Supvg. Architect's Office, Washington, D. C.—Bids until March 28 for changes and repairs to the plumbing system at the U. S. Treasury Bldg., Washington.

Press (Printing).—Bryson Novelty Manufacturing Co., Fayetteville, Tenn.—Printing press suitable for printing yardsticks, will consider rebuilt machine.

Printing and Engraving Materials.—Treasury Dept., Bureau of Engraving and Printing, Washington, D. C.—Bids until April 9 to furnish dextrine, oils, textiles, dry colors, paper boxes, paper and check paper during fiscal year beginning July 1, 1924. Blank forms and specification on application to Paul E. Twyman, Asst. Director.

Pumps.—See Water Works Improvements.

Rails, Switches, etc.—Kenova-Lincoln Coal Corp., Box 205, Kenova, W. Va.—Prices on relaying rails, switches, etc.

Road.—Hunt County, Greenville, Tex., will improve 4 roads. Details under Construction News—Road and Street Construction.

Road.—State Highway Dept., Jefferson City, Mo.—Details under Construction News—Road and Street Construction.

Road.—Louisiana Highway Comm., Baton Rouge, La. Details under Construction News—Road and Street Construction.

Road.—Iredell County, Statesville, N. C. Details under Construction News—Road and Street Construction.

Road.—Somervell County, Glen Rose, Tex. Details under Construction News—Road and Street Construction.

Road.—Real County, Leakey, Tex. Details under Construction News—Road and Street Construction.

Road.—State Highway Dept., Jefferson City, Mo., will build 15 roads. Details under Construction News—Road and Street Construction.

Road.—State Highway Comm., Frankfort, Ky. Details under Construction News—Road and Street Construction.

Road.—Navarro County, Corsicana, Tex. Details under Construction News—Road and Street Construction.

Road.—Edwards County, Rocksprings, Tex. Details under Construction News—Road and Street Construction.

Rails (Relaying).—Hackley Morrison Co., Inc., (Mchy. Dealers) 1708 Lewis St., Richmond, Va.—To purchase a minimum car of 30 lb. relaying rails, 15-ft. lengths.

Road.—Travis County Commrs. Court, Austin, Tex. Details under Construction News—Road and Street Construction.

Roads.—State Highway Dept., Columbia, S. C., will build 3 roads. Details under Construction News—Road and Street Construction.

Road.—Lee County, Bishopville, S. C., will build 2 roads. Details under Construction News—Road and Street Construction.

Screen (Door and Window).—Columbus Roberts, 1141 Sixth Ave., Columbus, Ga. To purchase door and window screens for residence; immediate installation.

Sewer.—Town of Maxton, N. C. Details under Construction News—Road and Street Construction.

Sewer.—City of Ashland, Ky. Details under Construction News—Road and Street Construction.

Sewers.—City of Charlotte, N. C. Details under Construction News—Sewer Construction.

Shovel (Steam).—Eagle Engineering Co., New Bern, N. C.—To purchase ¾-yd. steam shovel on crawler or traction wheels; good condition; immediate shipment.

Still (Oil).—Alex. M. Robinson (Mchy. Dealer) Welch, W. Va.—Prices on new and used crude oil still with capacity of 100 bbls., state condition, location, etc.; send blueprint of sketch.

Storm Sewer.—City of Portsmouth, Va. Details under Construction News—Sewer Construction.

Structural Steel I-Beams.—See Building Materials.

Sugar (Granulated).—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids until March 13 to furnish 180,000 lbs. granulated sugar; delivery Philadelphia, Pa.; 360,000 lbs., delivery to Quantico, Va.; 130,000 lbs. to Parris Island (Port Royal), S. C., Sch. 376.

Tanks (Steel).—Alex. M. Robinson (Mchy.

Dealers) Welch, W. Va.—To purchase four or more steel tanks, 12 ft. diam. 6 ft. high, tanks to have umbrella shaped tops, to be not less than ¼-in. plate, manholes, etc.; state location, condition, price, etc.

Tank and Tower.—See Water Works Improvements.

Tanks, etc.—Stonewall Service Station, H. C. McInvaill, Mgr., Route No. 1, Conway, S. C.—Tanks, pumps, etc., for service station.

Tractors.—Richmond County Comms., Roads and Revenues, Augusta, Ga.—Bids until March 24 to furnish two 5-ton, crawler type tractors; H. A. Norrell, Clk.

Trucks.—See Mining Machinery.

Water Works Improvements.—North Carolina Sanatorium, Sanatorium, N. C. Details under Construction News—Water Works.

Water Works.—City of Austin, Tex. Details under Construction News—Water Works.

Well Construction.—City Corinth, Miss., J. A. Lowe, Mayor. Bids until March 17 to construct bored well, with minimum producing capacity of 600 gal. per min., on continuous 10 hr. test; no pump required; well strainer not less than 12-in. diam.

Woodworking Machinery.—B. L. Winters, Mgr. Huntington Sash & Cabinet Co., Westmoreland, W. Va.—To purchase 6-in. moulder, variety saw, shaper, sash trimmer, etc.

Financial News

New Financial Corporations

D. C., Washington—Washington Investment & Transaction Co., capital \$450,000, incorporated by Herbert T. Shannon, Morton J. Luchs and others.

Fla., Miami—Tamiami Banking Co., capital \$50,000, organized with T. R. Knight, Pres.; W. G. Just, V-P.

Fla., West Palm Beach—Home Finance Corporation, capital \$300,000, chartered with A. H. Lauenborg, Pres.; Gordon North, Sec.

Ga., Albany—Georgia Agricultural Credit Assn., organized with \$10,000 capital; P. J. Brown, Chmn., Organization Committee.

La., Shreveport—Caddo Building & Loan Assn., capital \$250,000, incorporated with Geo. M. Hearne, Pres.; H. C. Wedgeworth, Sec.-Treas.-Mgr.

Md., Baltimore—Mammoth Corporation, 727 Equitable Bldg., capital \$10,000, incorporated by N. H. Neuner, P. E. Fine, and H. Mortimer Kremer.

Md., Baltimore—Lombard Permanent Building & Loan Assn., Madison Ave. and McMechen St., capital \$520,000, incorporated by Walter M. Weber, Howard C. Lamkin and others.

Md., Baltimore—Poppleton Building Assn., 898 W. Baltimore St. capital \$100,000, incorporated by Louis L. and Louis J. Shinnamen, Jr., and Albert H. Reifschneider.

Miss., Friar Point—Friar Point Bank, incorporated by J. B. McKee, W. G. Logan, P. F. Williams, J. C. Barnett.

Mo., Cape Girardeau—Cape Land Investment Co., capital \$50,000, incorporated by E. J. Deal, S. B. Hunter, H. I. Himmelberger and others.

Mo., Charleston—Mississippi County Agricultural Credit Corp., capital \$20,000; directors, Thad Snow, A. V. Goodin, R. L. Shelby, and others.

Mo., St. Louis—Shifflet Cumber & Co., Inc.,

1618 Boatmen's Bank Bldg., incorporated by B. L. Cumber, Pres.; S. E. Brown, Sec.

N. C., Greensboro—Cox & Grubbs Co., capital \$25,000, incorporated by E. G. Cox, O. L. Grubbs, and B. B. Vinson.

N. C., Lumberton—People's Bank, capital \$25,000, incorporated by J. B. Salmund, J. R. Davis, T. C. McLain and J. N. Fortenberry.

N. C., Raleigh—Farmers Credit & Investment Union, Inc., Davie and Blount Sts., capital \$100,000, incorporated by J. M. Walker, Wm. L. Cook and others.

N. C., Tarboro—H. H. Taylor Co., capital \$25,000, incorporated by H. H. Jenny, Henrietta Taylor and others, all of Kingston.

N. C., Warrenton—Watson & Witherspoon, Inc., capital \$20,000, chartered by R. T. Watson, W. M. Boyd and others.

N. C., Winston-Salem—Mortgage Discount Co., capital \$100,000, incorporated by Chap Bodenheimer, W. L. Herman and others.

Okla., Tulsa—Local Investment Co., incorporated by W. E. Green, A. Sutherland and others.

Tenn., Fountain City—Fountain City Bank, Knoxville Power & Light Co.'s station building, chartered with J. E. Williams, Pres., H. Henry, Cashier.

Tenn., Memphis—Peoples Finance & Thrift Co., capital \$200,000, incorporated by W. B. Pillsbury, W. B. Mills and others.

Tenn., Memphis—Boyle Trust & Investment Co., capital \$10,000, incorporated by McKinney Barton, W. H. Bersie and others.

Tex., Abilene—Central Loan & Trust Co., capital \$50,000, incorporated by L. S. Munger, C. W. Gill, O. E. Radford.

Tex., Fort Worth—Industrial Underwriters Corp. of Fort Worth, capital \$1,000,000; Ben E. Keith interested.

Tex., Tyler—Tyler Guaranty State Bank, capital \$50,000, chartered with E. E. Anthony, Pres.; Comanche; S. J. Mings, Cashier, Jacksonville.

Va., Alexandria—National Security & Investment Corp., capital \$100,000, incorporated with Kenneth W. Ogden, Pres.; John G. Graham, Sec.

Va., Pulaski—Lark Brown & Co., capital \$25,000, incorporated with R. I. Brown, Pres.; J. W. Lark, Sec.

Va., Richmond—Securities Mortgage Corp., capital \$250,000, incorporated with W. B. Nelson, Pres.; E. G. Lambert, Sec.

W. Va., Charleston—Mountaineer Commerce Co., capital \$10,000, incorporated by S. C. Ruenes, Geo. E. Taylor and others.

New Securities

Ala., Tuscaloosa—Road—Tuscaloosa County Board of Review, contemplates voting May 13 on \$575,000 bonds.

Ark., Bridge Junction—Drainage—Board of Directors St. Francis Levee Dist., of Arkansas, H. D. Tomlinson, Pres., will receive bids until March 31 for \$400,000, 5½% bonds; full information from John R. West, Sec.-Treas.

Ark., Pine Bluff—Drainage—F. A. Triplett, Sec. Board of Directors Cousart Bayou Drainage Dist., will receive bids until March 28 for \$150,000 5½%, \$500 denom. Cousat

Bayou Drainage District, of Jefferson and Lincoln counties, bonds.

Fla., Arcadia—De Soto County Board of Comms. sold \$37,500, 6% warrants to Splitzer, Rorick & Co., Toledo, at 97.125.

Fla., Daytona Beach—Improvement—City will vote March 29 on \$170,000, 6% bonds. Address The Mayor.

Fla., Fort Lauderdale—Improvement—Broward County Comms., Frank A. Bryan, Clk., will receive bids until March 18 for \$200,000, 6% bonds.

Fla., La Belle—Municipal Improvements—City plans \$25,000 bond issue; Perry Hull, Mayor.

Fla., Moore Haven—Road—Glades County will vote April 15 on \$277,000 bonds; N. S. Wainwright, Clk. of Court. (Lately noted to vote.)

Fla., Moore Haven—Glades county, Moore Haven Dist., voted \$75,000 bonds; will receive bids until April 9 for same bonds; N. S. Wainwright, Clk. of Court.

Fla., St. Petersburg—Street Paving, Street Railways, etc.—City will vote May 20 on \$335,000 bonds; R. E. Ludwig, Director of Public Utilities. (Lately noted.)

Fla., Tampa—Municipal Improvements—City, Perry G. Wall, Mayor, will vote April 22 on \$2,945,000 bonds. (Lately noted.)

Fla., Tampa—Drainage—Dover Drainage Dist., W. J. McDonald, Treas., will receive bids at Room 32 Giddens Bldg., on March 15 for \$189,000 bonds.

Fla., Wauchula—School—S. B. Hogan, Chmn. Board of Public Instruction, will receive bids until March 18 for \$20,000, 6%, \$1000 denom. bonds.

Fla., West Palm Beach—Refunding—City H. M. Macpherson, Clk., voted \$100,000, 5½ per cent bonds. (Lately noted to vote.)

Ga., Albany—School and Drainage—City and Dougherty County sold \$300,000, 5 per cent bonds to Robinson, Humphrey Co., Atlanta.

Ga., Thomasville—Road—Thomas County, Duncan Bickley, Chmn. Finance Comm., will receive bids until March 20 for whole or portion of \$50,000 bonds; S. L. Heald, Clk. County Board.

Ky., Ashland—Street Improvement—City will receive bids until March 18 for \$48,376.07 bonds; W. M. Salisbury, Mayor.

Ky., Hickman—Street—City sold \$30,000 bonds to Hickman Bank & Trust Co. at \$107 on \$100.

La., Arcadia—Road—Bienville Parish plans voting in April on \$100,000 bonds. Address Parish Police Jury.

La., Bastrop—Sewer—Municipal Council contemplates issuing and selling \$75,000 to \$100,000 bonds.

La., Homer—Road—Claiborne Parish contemplates \$750,000 bond issue. Address Parish Police Jury.

La., Lake Providence—East Carroll Parish will vote April 15 on \$125,000 bonds. Address Parish School Board.

La., New Orleans—Paving—Dept. of Public Finance, will receive bids until March 31 for \$1,000,000 certificates.

Md., Annapolis—Improvement—Geo. F. Quade, Collector and Treas., will receive bids until March 17 for \$100,000, 4½%, \$1000 denom. bonds.

Md., Frostburg—Street Improvement—City will vote April 1 on \$25,000 bonds. Address the Mayor.

Miss., Corinth—Water Works Refunding Board of Aldermen will receive bids until March 27 for \$53,000 bonds; J. A. Lowe, Mayor; M. T. Sharp, Sec.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned

Miss., Jackson—Improvement—City sold \$250,000, 5½%, \$1000 denom. bonds jointly to Whitney-Central Bank and Caldwell & Co., both New Orleans, La.

Mo., Farber—School—City defeated \$40,000 bond issue. Address The Mayor.

Mo., Jasper—School—City plans voting in Spring on \$35,000 bonds. Address The Mayor.

Mo., Sikeston—Sewer—City defeated \$100,000 bond issue; C. E. Felker, Mayor. (Lately noted to vote March 4.)

Mo., University City—School—City sold \$115,000, \$1000 and \$500 denom. bonds jointly to Mercantile Trust Co. and Potter, Kauffman & Co., both St. Louis.

N. C., Burgaw—Courthouse and Jail—Pender County Commrs., will receive bids until April 7 for \$35,000, 5½% bonds; George F. Lucas, Clk. of Board.

N. C., Charlotte—Paving—City Commrs. plan \$775,000 bond issue.

N. C., Dunn—Water-Works Improvements—City will issue \$275,000 bonds to finance extension of water mains to Cape Fear River, etc. Address The Mayor.

N. C., Durham—School—Durham County Board of Education will call election soon to vote on \$110,000 bonds.

N. C., Fayetteville—Court House—Cumberland County Commrs., contemplates \$475,000 bond issue.

N. C., Louisburg—Water—Board of Commrs., will receive bids until March 18 for \$45,000 bonds; J. J. Barrow, Town Clk.

N. C., Lumberton—School—Robeson County, Board of Commrs., will receive bids until March 22 for \$100,000, 5½% Maxton Consolidated Graded School Dist. bonds; M. W. Floyd, Clk.

N. C., Sanford—School—J. E. Brinn, Sec. Board of Trustees, will receive bids until March 18 for \$65,000, 5%, \$1000 denom. coupon bonds.

N. C., Waxhaw—Light and Power—City, H. B. Adams, Mayor, will receive bids until March 14 for \$25,000, 6%, \$1000 denom. bonds.

Okla., Cushing—Water and Sewer—City will vote March 13 on \$505,000 bonds. Address The Mayor.

Okla., Nowata—Water Works, Fire Equipment, Filtration Plant—City sold \$83,000 bonds to Brown, Crummer & Co., Wichita, Kan., at premium of \$500 above par and accrued interest.

Okla., Tulsa—School—Board of Education will receive bids until March 24 for \$2,000,000 5% bonds. (Lately noted.)

S. C., Aiken—Road—Aiken County contemplates \$300,000 bond issue. Address County Commrs.

S. C., Anderson—Street—City contemplates \$50,000 to \$75,000 bond issue; G. Cullen Sullivan, Attorney.

S. C., Charleston—Road and Bridge—Sanitary & Drainage Comm. will sell \$250,000 6% bonds.

S. C., Charleston—Paving—City, W. S. Smith, Treas., will receive bids until April 1 for \$545,000 bonds.

S. C., Denmark—Paving and Sewer—City will vote March 18 on \$66,000 bonds, including \$33,000 for paving and \$33,000 for sewer; Ryan Engineering Co., Engr., Columbia, S. C.

S. C., McColl—Street Improvement and Paving—City will receive bids until March 24 for \$50,000, 5½%, \$1000 denom. bonds, and \$50,000, 6% bonds; D. L. McLaurin, Mayor.

S. C., Newberry—Water Works—City sold \$125,000 5% coupon bonds to Detroit Trust Co., Detroit, at \$123,826.65.

S. C., Orangeburg—Road—Orangeburg county contemplates voting on \$300,000 bond. Address County Commrs.

S. C., Pendleton—School—Hunter School Dist. contemplates bond issue of not more than \$39,000. Address Pres. School Board.

S. C., Walhalla—Paving—City voted \$50,000 bonds. Address The Mayor. (Lately noted.)

Tenn., Cookeville—Water and Sewer—City, Jess Owen, Clk. will receive bids until March 15 for \$100,000 6 per cent bonds.

Tenn., Coal Creek—Water Works—Town sold \$30,000 bonds to Caldwell & Co., Nashville, Tenn.

Tenn., Greenville—Road—Greene County will vote May 3 on \$200,000 bonds. Address County Commrs.

Tenn., Jackson—City Hall—City will vote May 1 on \$890,000 bonds. Address The Mayor.

Tex., Albany—Road—Shackelford County voted \$500,000 bonds; Richard Dyess, County Judge. (Lately noted.)

Tex., Anson—Road—Jones County voted \$200,000 bonds; J. L. Lindsay, County Judge. (Lately noted.)

Tex., Benjamin—Road—Knox County Road Dist. No. 4, defeated \$250,000 bond issue; N. S. Kilgore, County Judge. (Lately noted to vote March 1.)

Tex., Bowie—School—City will vote in Spring on \$100,000 bonds, J. S. Schouder, Clk., Board of Education.

Tex., Floydada—Water Works—City will vote March 18 on \$10,000 bonds. Address The Mayor.

Tex., Galveston—School Improvement—City Commrs., plan \$480,000 bond issue.

Tex., Hale Center—School—City voted \$25,000 bonds. Address The Mayor.

Tex., Georgetown—Road—Williamson county, Taylor Road, Precinct No. 90, sold \$100,000 bonds to Prudden & Co., Toledo, Ohio, at par and accrued interest, amounting to 97½ cents.

Tex., Hebronville—Road—Jim Hogg County sold \$80,000 bonds to W. W. Jones at par.

Tex., Jourdanton—Road—Atascosa County defeated \$930,000 bond issue; E. L. Scott, County Judge. (Lately noted to vote March 1.)

Tex., Lone Oak—Water Works—City sold \$50,000 6% bonds to O'Neal, Sharp & Co., Dallas, at par and accrued interest.

Tex., Normangee—School—Normangee Independent School Board plans calling an election to vote on \$40,000 bonds. Address Pres. of Board.

Tex., Seguin—Road—Guadalupe County will vote April 3 on \$1,100,000 bonds; J. B. Williams, County Judge.

Tex., Trenton—Water Works—Fannin county defeated \$33,000 bond issue. Address The Mayor.

Va., Chatham—School—City sold \$200,000 5¼% coupon bonds to Caldwell & Co., Nashville.

W. Va., Clarksburg—Road—Harrison County, Wilderness Dist., will vote April 8 on \$90,000 bonds. Address County Commrs.

W. Va., Fairmont—Road—Marion County, Manning, Paw Paw, Lincoln Dists., voted \$1,257,200 bonds, including Mannington, \$600,000; Paw Paw, \$324,000; Lincoln, \$333,200. Address County Commrs. (Lately noted to vote.)

W. Va., Huntington—School—City sold \$140,000 bonds to John Hancock Life Insurance Co., Boston, Mass.

W. Va., Mannington—School—City defeated \$200,000 bond election. Address The Mayor. (Lately noted to vote.)

W. Va., Morgantown—Paving—State Sinking Fund Comm., sold \$250,000 bonds to Kanawha Banking & Trust Co., Charleston, and Bankers' Trust Co., New York, at par, and accrued interest and premium of \$7147.50.

Financial Notes

American National Bank, Nashville, Tenn., has opened branch bank at 808 Broadway; member of present force of American National Bank, will become manager.

Arkansas National Bank, Hot Springs, Ark., has increased capital from \$100,000 to \$200,000; Chas. N. Rix, Pres.

American Trust & Savings Bank, Birmingham, Ala., plans increasing capital from \$500,000 to \$1,000,000.

Commercial Savings & Loan Corp., Lynchburg, Va., increased capital from \$100,000 to \$200,000.

First Standard Bank, Louisville, Ky. increased capital from \$100,000 to \$200,000.

Gadsden Loan and Investment Co., Gadsden, Ala., increased capital from \$50,000 to \$100,000.

Jackson Building & Loan Assn., Jackson, Mo., will increase capital from \$500,000 to \$750,000.

Milldale Building & Loan Assn., Covington, Ky. increased capital from \$750,000 to \$1,250,000.

People's Homestead & Savings Assn., Monroe, La., plans increasing capital from \$5,000,000 to \$15,000,000; W. L. Stephens, Sec.

Sedalla Savings & Loan Assn., Sedalla, Mo., plans increasing capital from \$500,000 to \$1,000,000; John L. Sullivan, Sec.-Treas.

Washington Loan & Trust Co., Washington, D. C., will open branch bank at 17th and G Sts.

Trade Literature

New Bulletin of Cement Mixers

"Boss Tilter Batch-a-Minute Mixers," manufactured by the American Cement Machine Company, Inc., Keokuk, Iowa, are described and illustrated in a colored bulletin lately issued by that organization. It states that these mixers cost no more, but they are larger and faster than ordinary mixers. They have non-leaking bearings, reinforced shovelling edges, and quick dump easy discharge. There are also, it is stated, ten other improvements. Specifications, shipping directions and other important data are to be found in this publication.

Investigating and Financing Industries.

The work of the Industrial Corporation of Baltimore City, which is described as being "a clearing house for industrial investments," is related in a folder issued by it. The most important service which it performs is said to lie in the encouragement of participation in industrial enterprises by the existing financial institutions and capitalists of Baltimore. This is accomplished by acting as intermediary between industries and the sources of capital, making inquiries which capital awaits and presenting findings that are endorsed by the corporation when endorsement is justified. Charles M. Cohn is president, Eugene Levering, treasurer, and G. Harvey Porter, secretary. Since its beginning in 1915 the corporation has reviewed a great volume of industrial projects and has co-operated in organizing and financing various industries.

Anent Rise in Automobile Costs.

The Chevrolet Motor Company, Detroit, Mich., have mailed to all dealers handling their automobiles a bulletin giving information which enables them to answer questions relative to a possible increase of prices. Concerning increases made by other automobile manufacturers it is remarked that these increases appear to have been caused by steadily rising cost of material, but so far this company has been able to offset increased material costs by increased economies resulting from larger production. How long this can be done the company does not know. Dealers are therefore advised to urge customers to not delay purchasing.

A Story of Mining Down the Ages

"Conquering the Earth" is the name of a new book of 62 large pages issued by the Hercules Powder Company, manufacturers of explosives, Wilmington, Del. It is described as containing an elaboration of the events through the ages from stone hatchets to dynamite upon which a series of historical advertisements were based. The general idea of the work came to the company from readers of its advertisements, mining men, engineers, builders, etc. The strength of the impression made by the story told in the advertising was surprising, as was revealed in many letters of appreciation and inquiry. The result was more study of history on the part of the company and it was developed that the whole narrative of mining until comparatively recently is merely a story of rich discoveries. Ancient methods could not have worked the mineral veins which are worked today; when the people of olden times wanted gold or silver they had to find "bonanzas" and, judging by their treasures which have been preserved to this day and by the vastly greater store mentioned in ancient chronicles, what "bonanzas" they must have struck! Copies of the book which is finely illustrated, will be sent by the company if requested.

Book Review

Federal Income Taxes, Principles and Practice. By E. E. Rossmore, B. S., New York and London; D. Appleton & Company, 1924. \$6.

This large and comprehensive volume of 864 pages will be appreciated by the business world as well as by individuals who have to make returns upon private incomes. It gives the answers to many questions that arise in the mind when tax returns are being prepared, for Mr. Rossmore, in the course of dealing with 467 problems and complete solutions given in his work, has covered all of the questions likely to arise in the preparation of the income tax statement of any individual, firm or corporation. The book shows by definite examples exactly how the income tax law operates, and points out to the reader just what to do instead of making general statements that he must himself interpret and apply. In its practical and compact arrangement, in its completeness, and in its presentation of full data concerning the treatment of all income tax problems not only under the present act, but under the previous acts governing the income taxes, the work is unique and satisfying. Mr. Rossmore's fitness for dealing with his subject is testified to by the facts that he is a certified public accountant and that he was for some time chief of the special audit section, chief of the consolidated returns section, and lecturer on income and profits taxes in the Bureau of Internal Revenue, United States Treasury Department.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers whether they are advertisers, or subscribers or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Control of Automatic Substations

The Westinghouse Electric & Manufacturing Co., has recently published an eight-page circular, (C-1694), entitled "Supervisory Control." It sets forth the general principles of operation and construction of both audible and visual systems of supervisory control for automatic sub-stations. It is appropriately illustrated.

Two Contracts for Heat and Ventilation.

The Moncrief Furnace Company, Atlanta, Ga., have been awarded a contract for the heating and ventilating of a three-story industrial building of the Knights of the Ku-Klux Klan of that city, this structure covering an area of 44 by 160 feet and using fan blast furnaces and duct work to cost \$4000. They also have a contract for fan blast furnace heat and duct work to cost \$1750 for the Atlanta & West Point Railroad Co., in Atlanta. L. F. Kent, engineer for the Moncrief organization, observes that plants in the South seem to be more and more adopting the use of fan blast furnaces for industrial heating and ventilating.

Shovel Attachment for Gasoline Crane.

The Link-Belt Company of Chicago has lately developed a shovel attachment to be used in connection with their gasoline crawler crane. This shovel boom attachment is interchangeable and it enables the crane to fill a far greater field of usefulness. Either attachment, (shovel or crane body), can be specified as original equipment, but no matter how specified, the interchangeability of the boom permits the machine to be employed either as a gasoline crawler shovel with crane boom attachment or as a gasoline crawler crane with shovel attachment. The dipper, of three-quarter-yard capacity, is made entirely of manganese steel and it has been modeled like the "Missabe" type of dipper used extensively on the Missabe iron or range. The standard dipper stick is 15 feet long; the very strong boom is 24 feet center to center.

Development at Old Hickory Now Goes On.

The suit of the United States vs the Nashville Industrial Corporation to set aside the contract of sale of the Old Hickory Powder plant at Old Hickory, Tenn., because of alleged fraud, was dismissed by the Federal Court at Nashville on February 23; the government admitted that no fraud has been practised by the Corporation. Payment of the balance of \$1,700,000 due was arranged as follows: \$1,000,000 cash on entering the decree; \$100,000 in September next; \$100,000 in March next, and \$500,000 in March 1926. The original contract extended payments until 1930. It is further stated that all government supervision ceases and the property is returned to the Corporation. From August 1 last when suit was filed receivers operated the property until the suit was dismissed. The industrialization of Old Hickory, now well advanced with the location of the DuPont Fibersilk Co., and the Nashville Pulp & Paper Plant, besides other industries, seems to be assured, with sundry desirable sites available for more industries. Many buildings are suitable for immediate use and may be secured on advantageous terms.

Representatives Appointed.

The Mitchell-Tappen Company, manufacturing contractors, 15 John St., New York, have appointed the Steel Specialties Company, of Atlanta, Ga., (who are represented by G. A. Sykes and Stafford R. Hewitt), as their representatives for the sale of "Mitco" interlocked steel gratings and stair treads in a considerable portion of the South. The distinctive features of these products, it is noted, are steadily increasing their popularity with construction engineers and plant managers.

From Manufacturer to Consumer.

The Heil Company, 1255 Twenty-Sixth Ave., Milwaukee, Wis., manufacturers of steel dump bodies, hydro hoists and compartment truck tanks, have made arrangements according to announcement, by which customers can now buy their body equipment direct from the makers and at the lowest prices. The Heil-Ford equipment comprising bodies, hoists and tanks can therefore be placed in the hands of users in a simple, economical and efficient manner. These products include a gravel body, a hopper type gravity body, an ash and rubbish body, a coal body, tanks, and dump quick gravity body, etc.

Ice and Refrigerating Machinery

From January 18 to February 28 the York Manufacturing Company, of York, Pa., made 130 sales and installations of their ice making and refrigerating machinery throughout the country, including many at various places in the South as follows: Bristol, Va.; Richmond, Va.; Birmingham, Ala.; Gainesville, Fla.; Athens, Tex.; Houston, Tex.; Marshall, Tex.; Fairfax, Okla.; Toaco, Ga.; St. Louis, Mo.; Kingsville, Tex.; Glasgow, Ky.; Huntsville, Tex.; Kansas City, Mo.; Daytona, Fla.; Bonne Terre, Mo.; Towson, Md.; Baltimore, Md.; Pensacola, Fla.; Gulf, Tex.; Okmulgee, Okla.; Deepwater, Mo.; Webster Groves, Mo.; Oakland, Md.; Bartlesville, Okla.; Nashville, Tenn.; St. Joseph, Mo.; Shelby, N. C.; Gastonia, N. C.; Durham, N. C.; Victoria, Va.; Charleston, S. C.; Meridian, Miss.

Gas-Filled Bubbles That Put Out Fires.

The city of Baltimore has purchased from the Foamite-Childs Corporation of Utica, N. Y., a Model 7½ Foamite Pumper with a capacity of 1400 gallons of foam-producing solutions. This pumper, it is observed, is identical with a machine which attracted much interest at the Richmond convention of the International Association of Fire Engineers. The pumper at Baltimore will be used for fighting fires in oil refineries, dry cleaning establishments, garages, filling stations, etc., where highly inflammable liquids are present, as well as in vessels along the water front that have like products on board of them. The manufacturers have made recent other sales of their product at Laurinburg, N. C.; Van Alstyne, Tex.; Athens, Tex.; and Mountain Lake Park, Md., besides a number of other places. The "firefoam" generated by this pumper is described as a mass of gas-filled bubbles eight to ten times the bulk of the original solutions, which choke and put out fire without damage to goods.



"The most wonderful traction I have ever seen"

The truck pictured above is one of three owned by Mr. Walter Willhour of Bakersfield, California. Mr. Willhour in a recent letter writes as follows:

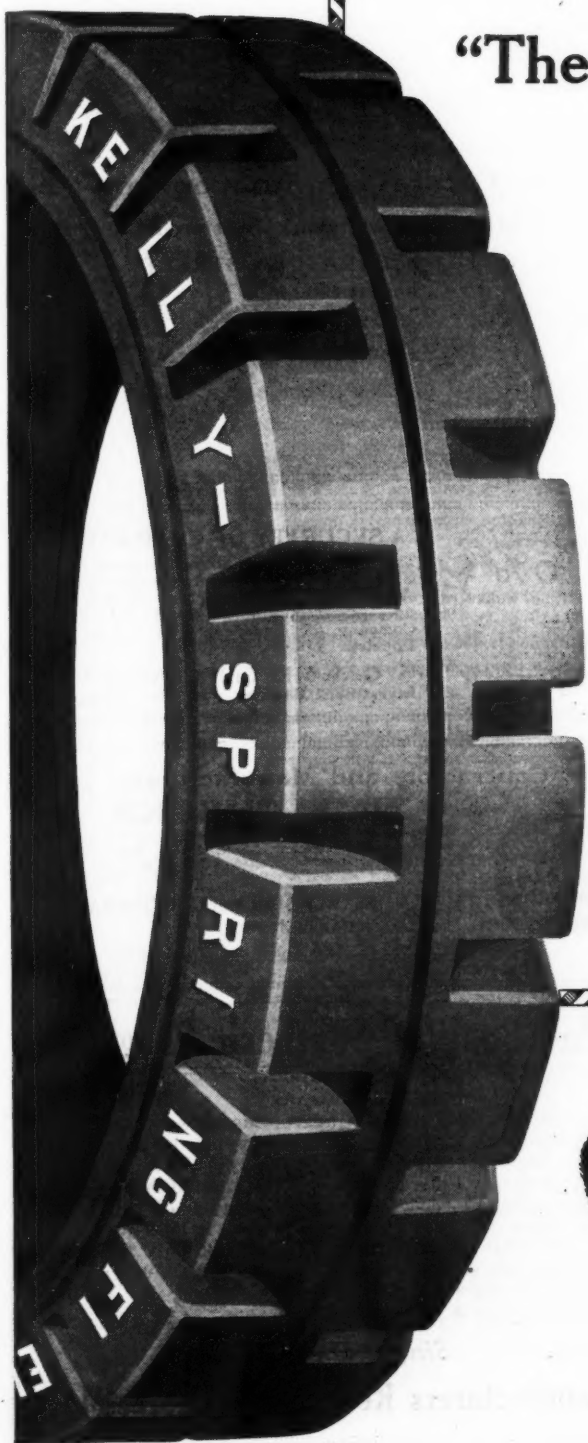
"My reason for equipping my trucks with nothing but Kelly Caterpillar tires is because of my experiencing the most wonderful traction that I have ever seen or had from truck tires. My work with these trucks takes me from Bakersfield to Los Angeles over the Ridge Route and in winter time this road is very slick due to ice and snow for weeks at a time. These tires have given me perfect traction and I have not experienced a skidding since I put Kelly Caterpillars on my trucks."

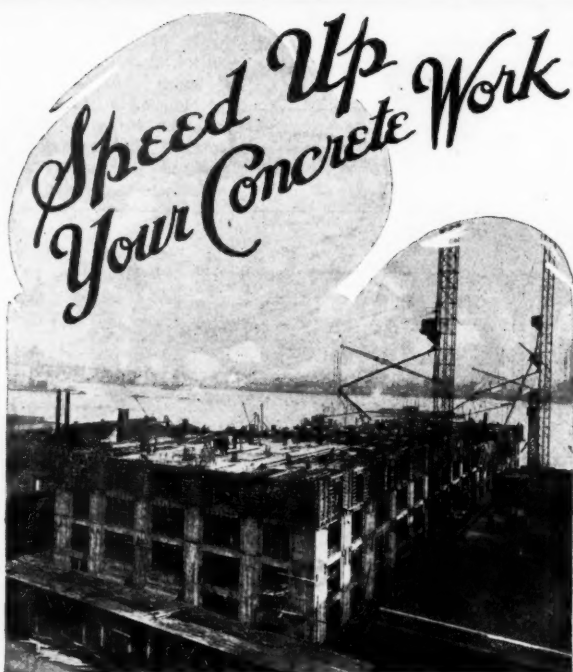
Mr. Willhour is also very enthusiastic about the mileage he is getting from Kelly Kats. On one of his trucks he used four sets of other tires but was unable to get more than six months' service from any of them. The Kelly Kats that were on the truck when this letter was written had been running over eight months and looked as good as new.

This is the kind of service that has made Kelly Kats the most widely used truck tires on the market.

There are no Caterpillar tires but Kelly Kats

KELLY-SPRINGFIELD TIRE COMPANY
250 West 57th Street New York, N. Y.





Erecting The Floors For The Latest New York Edison Plant

Just like Thomas Edison has revolutionized the use of electricity our system of removable steel forms speeds up the work and cuts down the cost of concrete construction.

The old wooden forms are just as passe as the oil lamp.

On this 9 story building almost a half million feet of concrete floors have been poured and both the contractor, The Kenn-Well Contract Co., Inc., and the Architect, Thos. E. Murray, Inc., of New York City, are loud in their praise of our system and supervision.

Setting A New Speed Record

Recently in the construction of the C. W. Johnston Building in Charlotte, N. C., we erected 16 floors in 90 days and at one time when both labor and weather conditions were most favorable we were able to erect 5 floors in two weeks. This is the speed that makes money for the contractor and satisfies the owner.

Mail Your Specifications

We lease the forms and send an expert to supervise the construction or we will contract the work complete, as we are doing on the New York Edison plant.

**The
Building Products
Company, O. Toledo**

*National Distributors—Blaw-Knox Floor Forms.
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Investment Bankers Savannah, Ga.

Contractors and Manufacturers TIME CHECKS



We Make Them Promptly. Headquarters for Seals, Stock Certificates, Stencils, Steel Dies, Brass Signs, Enamel Plates, Memorial Plates, Church Seals and Pew Plates. Made on our Premises. Send for Catalogue.

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—Atlanta Journal.

Single Copies 50c

Manufacturers Record, Baltimore, Md.

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That is our aim. We are properly conservative, but we recognize the obligation resting upon all bankers to help meet deserving business requirements.

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Pratt Street and Market Place, Baltimore, Md.

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Municipal Bonds

Inquiries invited from municipalities and contractors. We buy city, county, district, school, road, lighting, water works and other municipal issues.

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REAL ESTATE MORTGAGE BONDS

We are interested in the purchase of first mortgage bond issues covering business property, hotels, apartment houses, etc., in amounts of \$50,000 and upwards. Entire issues city, county and district bonds purchased.

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We Buy Bonds

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THE PROVIDENT SAVINGS BANK & TRUST CO.
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JOHN NUVEEN & CO.

First National Bank Building

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We purchase SCHOOL, COUNTY and MUNICIPAL BONDS. Southern Municipal Bonds a Specialty.

Write us if you have bonds for sale

ATTENTION**CONTRACTORS AND MUNICIPALITIES**

We Buy

MUNICIPAL BONDS**HERBERT C. HELLER & COMPANY**

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New York, N. Y.

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HAVE YOU BONDS FOR SALE?

WE BUY ALL CLASSES OF MUNICIPAL BONDS, INCLUDING CITY, COUNTY, SCHOOL, PAVING, ROAD AND DRAINAGE

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We are interested in the purchase of Southern Municipals including road, school, county, drainage and levee bonds.

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Never a default in interest or principal on any issue we have handled. Denominations: \$100, \$500, and \$1000. Explanatory Booklet "M" mailed free, upon request.

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BOND ISSUES

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PROPOSALS

Bids close April 22, 1924.

U. S. Engineer Office, Florence, Alabama. SEALED PROPOSALS will be received here until 11 A. M., April 22, 1924, and then opened, for furnishing and erecting 58 structural steel regulating gates for Wilson Dam, Tennessee River, near Florence, Alabama. Further information on application.

Bids close March 31, 1924.

U. S. Engineer Office, Baltimore, Md. Sealed proposals will be received here until 1 P. M., Standard Time, March 31, 1924 and then opened, for removing wreck of the steamship NORDHVALEN, sunk in Chesapeake Bay near mouth of Patapsco River, Md. Further information on application.

Bids close March 28, 1924.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C. February 29, 1924.—SEALED PROPOSALS will be opened at this office at 3 P. M., March 28, 1924, for changes and repairs to the plumbing system at the United States Treasury Building, Washington, D. C., in accordance with the specification, copies of which may be had at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close April 4, 1924.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., March 3, 1924.—SEALED PROPOSALS will be opened in this office at 3 P. M., April 4, 1924 for the construction including mechanical equipment, of a one story brick, non-fireproof Post Office building, approximately 82 by 54 feet in size at Orange, Texas. Drawings and specifications may be obtained from the Custodian of the site at Orange, Texas, or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Treasury Department, Bureau of Engraving and Printing, Washington, D. C. March 1, 1924. Sealed proposals are invited to furnish Dextrine, Oils, Textiles, Dry Colors, Paper Boxes, Paper and Check Paper, during the fiscal year beginning July 1, 1924. The right is reserved to reject any or all bids or parts of bids. Samples of Dextrine, Oils, Textiles and Dry Colors must be received at the Bureau of Engraving and Printing not later than 2 P. M., Wednesday, April 9, 1924. Samples of Paper Box Blanks, Paper and Check Paper, must be received not later than 2 P. M., Monday, April 7, 1924. Blank forms with specifications for proposals, giving dates on which the bids for the several schedules will be opened, and further information will be furnished on application to Paul E. Twyman, Assistant Director.

Bids close March 20, 1924.

\$50,000 Road Bonds

Thomasville, Ga.

Sealed bids will be received until Eleven o'clock A. M. on March 20th, 1924 for the whole or any portion of \$50,000.00 Thomas County, Georgia Road Bonds.

\$5,000.00 of each maturity will be offered for sale, maturing June 1939 to June 1948, both inclusive. Matured coupons will be clipped before sale of bonds.

Bidders must accompany their bids by certified checks for two percent of the amount of the bonds for which bid is submitted.

The right to reject any or all bids is reserved.

Further information may be obtained by addressing S. L. Heald, Clerk of the Board of County Commissioners, Thomasville, Ga., and sealed bids should be submitted to him.

DUNCAN BICKLEY,
Chairman Finance Committee,
Thomas County, Georgia.

RATE: 35 cents per line per insertion.

PUBLICATION DAY: Thursday.

FORMS CLOSE 4 P. M., Monday.

DAY LETTER: When too late to send

copy by mail to reach us by 4 P. M.

Monday, forward by day letter.

THE DAILY BULLETIN OF THE

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Published every business day; gives

information about the industrial,

commercial and financial activities of

the South and Southwest.

The Daily Bulletin can be used to

advantage when copy cannot reach

us in time for publication in the

Manufacturers Record before bids

are to be opened, or when daily pub-

lications are necessary to meet legal

requirements.

The same rate applies—35 cents per

line per insertion.

Bids close March 27, 1924.

\$53,000 Refunding Bonds

Corinth, Miss.

City of Corinth, Mississippi, will receive bids for sale of Fifty-Three Thousand Dollars of Water Works Refunding Bonds, at its Board of Aldermen meeting at seven o'clock P. M. on March the twenty-seventh, 1924. Sealed bids may be filed with City Clerk until said hour. Rate of interest, to be fixed, at from five to six per cent, and bids may specify rate, accordingly, that same is made on. Certified check for one thousand dollars required to accompany bid. Right reserved to reject any and all bids, and to sell to best bidder, at open public offering, if said Board so elects, before or after opening sealed bids. Same check may be used for either, or both, ways bonds are offered.

This March 3, 1924.

J. A. LOWE,
Mayor.
M. T. SHARP,
Clerk.

Bids close March 28, 1924.

\$150,000 Drainage Bonds

Pine Bluff, Ark.

Notice is hereby given that approximately One Hundred and Fifty Thousand (\$150,000.00) Dollars of bonds, in denomination of Five Hundred (\$500.00) Dollars, of Cousart Bayou Drainage District of Jefferson and Lincoln Counties, Arkansas, will be offered for sale at open and competitive bidding at 10 o'clock a. m., on Friday, March 28, 1924, in the office of A. F. Triplett in Pine Bluff, Arkansas. Said bonds will be dated May 1, 1924, will bear interest at Five and One-Half (5½%) per cent with privilege of conversion to Five (5%) per cent, only interest payable for four years and the bonds mature practically uniformly over the next sixteen years on the first days of July. Interest payable semi-annually, exact maturities to be determined by the Board. Said bonds will be sold for cash and the District shall be entitled to all accrued interest to date of delivery of bonds. The District will pay all expenses of the bond issue except that it shall not be obligated for an attorney fee greater than the schedule of fees charged at the present time by the firm of Rose, Hemingway, Cantrell & Loughborough, of Little Rock, Arkansas. All bidders will be required to file with the Secretary of the Board a certified check in the sum of Three Thousand (\$3,000.00) Dollars drawn upon a bank of Pine Bluff, Arkansas, to insure compliance with the terms of his bid and the check of the highest and best bidder shall be the property of the Board if he fails to carry out his bid. The right is reserved to reject any and all bids.

C. H. TRIPLETT, JR.,
Secretary of Board of Directors of
Cousart Bayou Drainage District.

Bids close March 24, 1924.

\$50,000 Street Improvement Bonds

\$50,000 Paving Certificates

McColl, S. C.

McColl, S. C. offers to the highest bidder \$50,000 Street Improvement Bonds, of \$1000 denomination, interest 5½%, payable semi-annually. Twenty year serial bonds, \$2000 to be retired 1925, \$3000 1926, retirement alternating \$2000 and \$3000 per year. Bonds dated April 1, all accrued interest reverts to the Town.

Also \$50,000, 20 year Paving Certificates, Int. 6% payable semi-annually. Certificates retired as follows: one-fourth in 5 years, one-fourth in 10, 15 and 20 years. City reserving the right to retire the entire issue of Paving Certificates in 10 years.

Sealed bids received not later than 7:30 P. M., March 24, 1924. Certified check for \$1000 must accompany each bid. Council reserves the right to reject any or all bids, if found unsatisfactory.

D. L. McLAURIN,
Mayor.

EFFIE McLUCAS,
Clerk.

Bids close April 1, 1924.

Bridge

Athens, Ga.

Sealed bids will be received on April 1, 1924, for reinforced concrete bridge, deck girder type with cantilever five foot side walks one hundred fifty feet long, clear road way twenty-four feet or alternate design of reinforced concrete arch type.

Plans and specifications of either design can be secured by making a payment of \$10.00. Address

TATE WRIGHT, Clerk.

Bids close March 25, 1924.

Pee Dee River Bridge

Raleigh, N. C.

Sealed proposals will be received by the State Highway Commission of North Carolina at Room 314, State Highway Commission Building, on East Morgan Street, Raleigh, N. C., until 10:00 o'clock a.m., March 25th, 1924, when they will be publicly opened and read, for the construction of the Pee Dee River Bridge between Wadesboro, Anson County, and Rockingham, Richmond County.

The bridge consists of thirteen 50 ft. reinforced concrete deck girder approach spans on the Wadesboro end, three 200 ft. reinforced concrete open spandrel ribbed arch spans over the river and seven, 50 ft. deck girder approach spans on the Rockingham side. The width of roadway is 20 ft.

Plans and specifications are on file at the State Highway Commission offices. Copies of plans, specifications, and proposal blanks may be procured from Geo. F. Syme, Senior Highway Engineer, State Highway Commission, Raleigh, N. C., upon payment of \$5.00. All proposals must be made upon blank forms supplied by the State Highway Commission.

Each proposal must be accompanied by a bid or bond of a surety company, or by a certified check for \$11,000. Certified checks shall be made payable to Frank Page, Chairman, State Highway Commission. The successful bidder will be required to give bond in the sum of 50 per cent of the amount of contract.

The right is reserved to reject any or all bids.

CHARLES M. UPHAM,
State Highway Engineer.
WM. L. CRAVEN,
Bridge Engineer.

Bids close April 8, 1924.

Bridge Construction

Charleston, W. Va.

Sealed proposals will be received by the State Road Commission of West Virginia, at its office in Charleston, West Virginia, until 10 o'clock A. M. on the 8th day of April, 1924, and at that time and place publicly opened and read for the construction of the following bridges:

Project 3138—Mason County—Five Mile Bridge No. 857 and Three Mile Bridge No. 858; No. 857—concrete deck girder 60 foot span; No. 858—concrete deck girder 35 foot span. Both to be let in one contract. Certified check \$1200.00.

Project 3226—McDowell County—East War Bridge No. 905 and Johns Branch Bridge No. 906—concrete substructures and 140 foot span steel through truss superstructures. Both substructures to be let in one contract—certified check \$900.00. Both superstructures to be let in one contract—certified check \$1000.00.

Project 3188—Wayne County—Stone Coal Bridge No. 898—Steel pony truss 85 foot span. Superstructure only. Certified check \$500.00.

Project 3167-B—Marshall County—Denver Bridge No. 885—150 foot steel superstructure only. Certified check \$500.00.

Project 2066—Ohio County—Ridgely Bridge No. 761—concrete arch 80 foot span. Certified check \$500.00.

Project 3162—Wetzel County—Scheidler Bridge No. 886—Concrete through girder 35 foot span, and

Four concrete bridges—Moore No. 892, Wade No. 893, Cook No. 894, Huff No. 895—80 foot spans each. All in one contract. Certified check \$3000.00.

Project 3082-B—Wetzel County—Proctor Bridge No. 948—Concrete deck girders, four fifty-foot spans—Certified check \$1500.00.

Project 3116-A—Wood County—Allison Bridge—24 foot span concrete standard slab. Certified check \$500.00.

Project 3084-B—Wood County—Slate Bridge No. 744—Reconstruction west abutment concrete. Certified check \$500.00.

Project 3111—Gilmer County—Cedar Creek Bridge No. 842—Masonry substructure and 140 foot span steel through truss superstructure. Separate proposals will be received for substructure—certified check \$600.00—and superstructure—certified check \$800.00.

Project 3225—Harrison County—Hughes Bridge No. 909—concrete arch—80 foot span—Certified check \$500.00.

Project 3225—Harrison County—Hackers Creek Bridge No. 910—Concrete substructure and 80 foot steel pony truss superstructure. Separate proposals will be received for substructure—certified check \$500.00—and superstructure—certified check \$500.00.

Project 3255—Lewis County—Jane Lew Bridge No. 908—Concrete arch—80 foot span—five foot sidewalk. Certified check \$800.00.

Project 2135—Marion County—Annabelle Bridge No. 899—Concrete deck girder 40 foot span. Certified check \$500.00.

Project 3279—Webster County—Grassy Creek Bridge No. 690—concrete arch—two 50 foot spans, and

Holly River Bridge No. 920—concrete arch—80 foot span. Both to be let in one contract. Certified check \$1000.00.

Project 122-B—Grant County—Abrams Creek Bridge No. 883—80 foot span pony truss. Superstructure only. Certified check \$500.00.

Project 3146—Grant County—Klines Gap Bridge No. 884—three 20 foot concrete slabs. Certified check \$500.00.

Project 134—Hampshire County—Hanging Rock Bridge No. 670—concrete substructure and 100 foot steel through truss superstructure. Separate proposals will be received for substructure—certified check \$500.00—and superstructure—certified check \$500.00.

Project 117—Randolph County—Leading Creek Bridge No. 846—Concrete arch—two 60 foot spans. Certified check \$900.00.

Project 3033—Randolph County—2 bridges over Ralston Run—No. 865 and No. 866—Concrete through girders, 40 foot spans each. Both in one contract. Certified check \$800.00.

Project 3211-A—Randolph County—Leading Creek Gilman Road Bridge No. 953—Concrete substructure and 80 foot steel pony truss superstructure. Separate proposals will be received for substructure. Certified check \$500.00—and superstructure—certified check \$500.00.

Proposals will be received only upon State Standard forms in accordance with

plans, specifications and estimates of quantities therefor, which standard forms, plans, specifications and estimates may be obtained from the office of the State Road Commission at Charleston, West Virginia.

Each proposal must be accompanied by a certified check for the amount noted.

The right is reserved to reject any or all proposals.

STATE ROAD COMMISSION OF
WEST VIRGINIA.
E. B. CARSKADON, Secretary.

Bids close March 31, 1924.

Bridge

Houston, Tex.

Sealed bids will be received at the office of the City Secretary of the City of Houston until 12 o'clock noon March 31, 1924, for the construction of a reinforced concrete and steel bridge across Buffalo Bayou at the intersection of Smith street, Congress Avenue and Acuff street.

Plans and specifications and all necessary information may be had upon application at the office of the City Engineer. Certified check upon any bank doing business in the City of Houston, equal to five per cent of bid, must accompany each proposal. The City reserves the right to reject any and all bids, or to accept any bid deemed advantageous to the City.

Dated February 26, 1924.

O. F. HOLCOMBE, Mayor.

Bids close March 24, 1924.

Road Construction

Pensacola, Fla.

Sealed bids will be received by the Board of County Commissioners of Escambia County, State of Florida, at the office of Circuit Clerk of Escambia County, Pensacola, Florida, until 10 o'clock A. M. March 24, 1924, and at that hour publicly opened, for construction of County Project No. 9, on the Pensacola-Flomaton Road, beginning at Roberts, Florida, 10 miles north of Pensacola, and running 6.57 miles in a northerly direction to a point 1½ miles north of the Cottage Hill railroad station.

Construction of this 18-foot roadway is to be of either plain concrete; reinforced concrete; brick on concrete base; Bituminous Concrete; Kentucky Rock Asphalt, or Bituminous "B" Concrete, on concrete or broken stone (or slag) base.

The use of either foreign or domestic cement will be allowed in all cement concrete construction; and the County will consider bids with the County furnishing cement, or with the Contractor furnishing the same.

Plans and specifications are on file in the office of the Circuit Clerk of Escambia County, Pensacola, Florida, and may be obtained upon deposit of Ten Dollars, which will be refunded upon return of said plans and specifications by a bona fide bidder.

The right to reject any or all bids is reserved.

Certified check for the sum of five (5) per cent, of total amount of bid must accompany each bid as evidence of good faith and as a guarantee that if awarded contract, the bidder will execute contract and give bond as required.

H. E. GANDY,

Chairman, Board of County Commissioners.
Attest:

JAMES MACGIBBON,
Clerk Circuit Court.

Bids close April 2, 1924.

Street Improvements

Benson, N. C.

Sealed proposals will be received by the Mayor and Board of Commissioners of the Town of Benson, N. C., until 3:00 P. M., April 2nd, 1924, at the Town Clerk's office in Benson, N. C., for the construction of Street Improvements.

The work will consist of 40,000 square yards, more or less, of Sheet Asphalt, Bitulithic, or other Bituminous pavement, on a cement concrete foundation; combined concrete curb and gutter; Granite curbing with concrete gutter; storm drainage, etc.

Proposals must be marked "Proposals for Street Improvements for the Town of Benson, N. C." All bids must be submitted upon blank forms provided in copies of the proposal, contract and specifications.

Each bid must be accompanied by a certified check for five (5) per cent of the amount of the bid, as evidence of good faith.

Plans, copies of the proposal, contract, specifications, etc., may be obtained upon application to the Engineer.

The Town reserves the right to reject any or all bids or to award contracts which appear to be for the best interest of the Town.

Bids are requested and contracts will be awarded subject to the sale of bonds for the work.

EZRA PARKER, Mayor.

WILLIAM C. OLSEN,
Consulting Engineer,
Raleigh, N. C.

Bids close March 26, 1924.

Sheet Asphalt Paving

STATE OF MARYLAND
STATE ROADS COMMISSION
NOTICE TO CONTRACTORS

Baltimore, Md.

SEALED PROPOSALS for building one section of State Highway, as follows: Anne Arundel County—Contract AB-10-D. One section of State highway over the Severn River Bridge and approaches for a distance of 0.67 mile (Sheet Asphalt) will be received by the State Roads Commission, at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on Wednesday, the 26th day of March, 1924, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 8th day of March, 1924.

JOHN N. MACKALL,

Chairman.

L. H. STEUART, Secretary.

Bids close March 27, 1924.

Water Supply System

Newberry, S. C.

Sealed proposals for furnishing material and constructing a Water Supply System for the City of Newberry, S. C., will be received by the Commissioners of Public Works at the City Hall, until three (3) P. M., Thursday, March 27th, 1924.

The Water Supply System will consist of an intake and pumping station, a one million gallon service reservoir, coagulating basin, two 500,000 gallon concrete filters and approximately 14,000 feet of 12 inch supply main.

Each proposal must be accompanied by a certified check, payable to the City of Newberry, S. C., to an amount equal to five (5) per cent of the bid, as a guarantee that the contract will be entered into if awarded. A bond of one hundred per cent (100) of the contract price will be required. Payments will be made on monthly estimates.

Plans and specifications are on file in the office of the City Clerk, at Newberry, S. C., and with Paul H. Norcross, Consulting Engineer, 1404 Candler Building, Atlanta, Georgia.

Bidders may obtain copies from the Engineer, by enclosing certified check for twenty-five (\$25.00) dollars, payable to the City of Newberry, S. C. If blue prints are desired, they may be had at the cost of printing. If the plans, specifications and blue prints are returned within thirty days after opening bids, the check for twenty-five dollars will be returned.

Commissioners of Public Works,

M. L. SPEARMAN, Chairman.
PAUL H. NORCROSS,
Consulting Engineer,
1404 Candler Building,
Atlanta, Ga.

Bids close March 18, 1924.

Paving

Charlotte, N. C.

Sealed proposals for the paving of certain streets in the City of Charlotte will be received by the Board of Commissioners up to 11 o'clock A. M. of the 18th day of March 1924.

The work to be done consists of approximately 45,000 sq. yds. walk and 211,000 square yards of paving.

Bids will be received on various types. A certified check equal to five per cent. of the amount of the bid, and made payable to the Treasurer of the City of Charlotte, will be required to accompany each bid.

Plans may be seen, and specifications may be obtained, at the office of the City Engineer.

The right is reserved to reject any or all bids or any part of a bid.

By Order of the Board of Commissioners.

W. S. STANCILL,

Commissioner of Public Works.

JOSEPH FIRTH,
City Engineer.

Bids close April 2, 1924.

Water Works Improvements

Sanatorium, N. C.

Sealed proposals will be received by the Chairman and Board of Directors of the North Carolina Sanatorium at the office of the Superintendent in Sanatorium, N. C., until 10:30 o'clock A. M., April 2nd, 1924, for Water Works Improvements.

The work will consist of:

Brick and Concrete Filter House, and and Filter Tubs.

Brick and Concrete Auxiliary Station.

Concrete Congulating Basin.

Concrete Storage Reservoir.

Steel Wash Water Tank and Tower.

About one mile of Cast Iron Pipe Line.

About one mile of 2200 volt Transmission Line.

Motor-driven Centrifugal Pumps, and accessories.

Filter Plant Equipment.

Proposals must be marked, "Proposal for Water Works Improvements."

All bids must be upon blank forms provided in the "Proposal, Specifications and Contract."

Each bid must be accompanied by a certified check for not less than five per cent of the amount of the bid, as evidence of good faith.

Plans and specifications will be on file at the Superintendent's office in Sanatorium, and at the office of the Engineer in Durham, N. C., and copies of specifications, forms of proposal, etc., will be mailed upon application to the Engineer at Durham, N. C., accompanied by payment of Ten Dollars (\$10.00) which will be refunded to those who submit bona-fide bids.

The right is reserved to award the contracts as the Board may deem to be to the best interests of the State, or to reject any or all bids.

T. W. M. LONG, M. D.,

Chairman.

W. E. HARRISON,

Secretary.

Engineer:
GILBERT C. WHITE CO.,
Durham, N. C.

Bids close March 27, 1924.

Water Works and Sewerage

Dunn, N. C.

Sealed proposals will be received by the Mayor and Board of Town Commissioners of the Town of Dunn, N. C., at the Town Hall in Dunn, N. C. until 2:00 P. M., March 27th, 1924 for Water Works and Sewerage Improvements.

The work will consist of:

Brick and Concrete Pumping Station and complete Filter Plant.

Steel Wash Water Tank and Tower.

Eleven miles of Cast Iron Pipe Line (16-inch to 4-inch).

One and one-half miles of 2200 volt transmission line.

Motor-driven Centrifugal Pumps, and accessories.

Sewer extensions, about one mile.

Sewage Disposal Plant.

Proposals must be marked "Proposal for Water Works Improvements."

All bids must be upon blank forms provided in the Proposal, Specifications, and Contract.

Each bid must be accompanied by a certified check for not less than five per

cent of the amount of the bid, as evidence of good faith.

Plans and specifications will be on file at the Clerk's office in Dunn, and at the office of the Engineer in Durham, N. C.; and copies of the specifications, form of proposal, etc., will be mailed upon application to the Engineer at Durham, N. C., accompanied by payment of Ten Dollars (\$10.00) for each set of plans and specifications, which will be refunded to those who submit bona-fide bids.

The right is reserved to reject any or all bids.

J. L. WADE, Mayor.

H. A. PARKER, Clerk.

Engineer:
GILBERT C. WHITE CO.,
Durham, N. C.

Bids close March 27, 1924.

Drainage Construction

Pine Bluff, Ark.

Sealed bids will be received by the Board of Directors for Cousart Drainage District of Jefferson and Lincoln Counties, Arkansas, at the office of A. F. Triplett, attorney for the District, 510 Citizens Bank Building, Pine Bluff, Arkansas, up to 10 o'clock A. M., March 27th, 1924.

The work on which bids will be received will consist of redredging, widening, deepening and extending the old Cousart drainage ditch; the construction of additional laterals; redredging and extending the present lateral ditches; also cleaning of Deep Bayou for a distance of 12.6 miles; the construction of a new canal between Deep Bayou and Bayou Bartholomew. The quantities in the above described work are as follows:

Main Canal, 411,000 cubic yards.

Lateral Ditches, 270,000 cubic yards.

New Canal, 173,000 cubic yards.

Cleaning Deep Bayou, 12.6 miles.

Plans and specifications for the above work may be obtained from Fred Bennett, Engineer for the District, 410 Citizens Bank Building, Pine Bluff, Arkansas, upon the payment of \$10.00. Bids must be on form furnished by the engineer and in conformity with the plans and specifications. Bidders bond or certified check on a bank in Pine Bluff, Arkansas, in the sum of Five Thousand (\$5,000.00) must be furnished the Secretary with each bid. The Board reserves the right to reject all bids.

R. S. CHERRY, Chairman.

C. H. TRIPLETT, Jr. Secretary.

Bids close March 31, 1924.

Filtration and Pumping Plant

Chatham, Va.

Bids are invited, by the Mayor and Town Council of the Town of Chatham, Virginia, until 6 o'clock p.m. of March 31, 1924, for the construction of a filtration and pumping plant for the municipal water works, a force, main, steel tanks, oil storage, with gravity feed, etc.

The work will include a small dam and intake crib on Cherrystone Creek, with raw water line, concrete pump well, combined concrete and brick filter and pump station, a 10,000 gallon steel wash tank, about 4,100 feet of 6 in. cast iron force main, classes R, C and D, with all necessary piping about the plant, etc.

A low service centrifugal pump, direct connected to motor.

A high service centrifugal pump, direct connected to motor.

A low service centrifugal pump for belt drive.

A high service centrifugal pump for belt drive.

A semi Diesel fuel oil engine, with air starter outfit.

All filter equipment for a 360,000 g.p.d. unit.

A 150,000 gallon hemispherical bottom steel tank, with tower.

A 10,000 gallon oil tank, with about 1500 feet of 2 in. gravity feed.

The right is reserved to reject any or all bids, and to let the work as a whole, or in parts.

Each bidder will be required to file with his bid a certified check, cashier's check, or bidders bond, in the sum of 5% of his bid.

This check, or bond, will become a forfeit to the Town of Chatham, if contract is not entered upon, and bond executed promptly after the award.

The successful bidder will be required to execute an indemnity bond, with some satisfactory guaranty company, in the sum of one-third the face of his bid, to safeguard the satisfactory completion of the contract.

Plans and specifications may be examined at the office of Mr. Wm. M. Tredway, Jr., Clerk, by whom copies will be mailed to contractors only, on receipt of a check for \$10.

This deposit will be returned only to parties who have submitted bona fide bids to the Town, before the above date, and who have returned the plans and specifications in good condition.

WM. M. TREDWAY, JR.,

Clerk of Council,

Chatham, Virginia.

The Ambler Engineering Company,
Richmond, Virginia.

Bids close March 26, 1924.

Power Plant Equipment

Rocky Mount, N.C.

Sealed proposals will be received by the Mayor and Board of Aldermen of the City of Rocky Mount, N. C., until 3.00 P.M., March 26th, 1924, for furnishing, delivering and erecting the Power Plant Equipment enumerated as follows:

One, (1) 2500 K. W. @ 80% P. F., 3125 K. W. @ Unity P. F. Turbo-Alternator with direct connected exciter.

One, (1), Surface Condenser for the 2,500 K. W. Turbine, complete with duplicate Dry Vacuum Pumps; Hot Well Turbine—motor driven, Centrifugal Pump; Inter and after Condenser and appurtenant equipment.

One, (1), Motor driven Centrifugal Circulating Pump.

One, (1), Turbine driven Centrifugal Circulating Pump.

One, (1), Motor operated, back outlet, turbine exhaust valve; expansion joint and Atmospheric Relief valve.

One, (1), 40 K. W. direct connected, Turbine driven Exciter.

One, (1), Switchboard consisting of one Generator Panel, two Exciter Panels, and two Feeder Panels.

Three, (3), 30 K. W. Constant Current Series Street Lighting Regulators with a three circuit Control Panel.

Two, (2), and an alternate on three (3), 750 H. P. Water Tube Boilers.

Two, (2), and an alternate on three (3), brick settings for 750 H. P. Boilers.

Two, (2), and an alternate on three (3), Superheaters for 750 H. P. Boilers.

One, (1), Steel Plate Smoke Flue with expansion joints, dampers, supports, etc.

One, (1), Steel Plate Boiler Blow-Off Tank.

Two, (2), and an alternate on three (3) sets of soot blowers for 750 H. P. Boilers.

Two, (2), and an alternate on three (3), sets of Feed Water Regulators.

Two, (2), and an alternate on three (3) sets of Damper Regulators.

Two, (2), and an alternate on three (3) sets of Steam flow, CO₂ exit gas Temperature and Fire Box Draft Meters with panels.

Two, (2), and an alternative on three (3) Underfeed Mechanical Stoker Units with two (2) Turbine driven Blowers (for either case), regulators, shafting, one engine and one motor stoker drive, pulleys, chains, etc., for 750 H. P. Boilers.

One, (1) 3000 H. P. Open Type Feed Water Heater.

Two, (2), Boiler Feed Pumps; one Turbine driven; one direct acting.

One, (1), Radial Brick Chimney, 225 Feet High, (above foundation), and 11 feet inside top diameter.

One, (1), 30 Ton Turbine Room Crane with motor Hoist, 30 feet span, with rails, track girders, etc.

Proposals must be marked "PROPOSALS FOR POWER PLANT EQUIPMENT." All bids must be made upon blank forms provided in copies of the Proposal, Contract and Specifications.

Each bid must be accompanied by a certified check in the amount of five (5) per cent of the amount of the bid, but in no case for less than Two Hundred Fifty (\$250) Dollars, as evidence of good faith.

Copies of the Specifications, Form of Proposal, Contract, etc., may be obtained upon application to the Engineer.

The right is reserved to reject any or all bids or to award contracts which, in the opinion of the Engineer and the Board, appear for the best interests of the City.

T. T. THORNE, Mayor.

C. H. HARRIS, City Clerk.

R. R. Gay, Chairman Improvements Committee.

WILLIAM C. OLSEN,
Consulting Engineer,
Raleigh, N. C.

Bids close March 18, 1924.

Sewers and Drains

Charlotte, N. C.

Sealed proposals for the construction of 44,000 ft. of sewers on certain streets for the City of Charlotte, will be received by the Board of Commissioners of the City of Charlotte up to 11 o'clock, A. M. of the 18th day of March, 1924. Proposals to be addressed to the City Commissioners and endorsed:—"Proposals for Constructing Sewers."

A certified check equal to 5 per cent of the amount of the bid will be required to accompany the bid. Check to be made payable to City Treasurer.

Plans may be seen and specifications obtained at the office of the City Engineer. The right is reserved to reject any or all bids.

W. S. STANCILL,

Commissioner of Public Works.

JOSEPH FIRTH,
City Engineer.

Bids close March 24, 1924.

Diesel Oil Engine and Generator.

Sarasota, Fla.

Sealed Bids will be received by the City Council of the City of Sarasota, Florida at 7:30 P. M. March 24, 1924 for the following:—

Separate bids for different sizes between 600—750 Hp. Diesel oil engine (one size to be purchased) direct connected to alternator and exciter 2300 Volt 400 to 500 K.W. at 80% power factor.

1—Generator Panel complete for synchronizing with other units. Delivered and erected on foundation furnished by City.

Each bidder to furnish specifications of equipment.

Bids must be accompanied by certified check for 5% of bid, made payable to the City of Sarasota, Florida.

The City reserves the right to reject any or all bids or to award as a whole or in part.

E. J. BACON, Mayor.

H. I. SOUTHWICK, City Clerk.

Levee and Drainage Work

I will sublet 575,000 cu. yds. Floating Dredge work; 240,000 cu. yds. Dragline; 127,000 cu. yds., suitable for either Bay City or small Dragline; 81,000 cu. yds. Team work. Will sublet all or any part to responsible parties only. All located in Mississippi.

J. E. McCARTY,
General Delivery,
Memphis, Tenn.

Fire Apparatus

Waycross, Ga.

Bids will be received by the City of Waycross, Georgia until March 25th, 1924, for the following:

1—750 Gallon per minute triple combination pumper. Chemical engine and hose motor car not less than 100 horsepower, equipped with pneumatic tires; also 3000 feet of 2½ inch solid multiple woven standard fire hose.

WALTER E. LEE, City Clerk.



CLASSIFIED OPPORTUNITIES



MINERAL AND TIMBER LANDS WATER POWER, MISCELLANEOUS PROPERTIES

FOR SALE OR LEASE—Unlimited Deposit of sand stone 90% Silica. Loaded by gravity on cars. If interested address owner, A. D. Reynold, Bristol, Tenn.

COAL LANDS AND MINES

COAL MINE BARGAIN, IMMEDIATE SALE—Located on Louisville and Nashville and Southern Ry., non-union territory, lease 500 acres—38-in. Jellico seam, capacity 400 tons daily, now operating fully equipped, miners houses, commissary, etc., \$22,500 liberal terms if desired. Dr. E. Guynes, 513 Walnut Street, Knoxville, Tenn.

FOR SALE—Coal mine—now working three seams (Winifrede-Coalburg-Thacker)—located on Norfolk & Western, Mingo County, W. Va. Producing about 750 tons per day—very low royalty. Address P. O. Box No. 1191, Norfolk, Virginia.

CUMBERLAND COUNTY, TENNESSEE: to close estate; Titles good; 16,000 acres high grade Coking Coal 10 ft. thick also 1200 acres operating mine. E. H. Benoist, 1002 Title Guaranty Bldg., St. Louis, Mo.

FOR SALE: 12,000 acres coal, northern West Virginia, Pittsburgh and Redstone seams, 7 to 8 feet thick, superior quality; operating mines or undeveloped tracts. Taney Harrison, Clarksburg, W. Va.

WELL EQUIPPED COAL PROPERTY of 500 acres, Kattanning Coal, Western Maryland, R. R. Price \$100,000, good terms. J. O. Mead, Parkersburg, W. Va.

TIMBER AND TIMBER LAND

2000 ACRES VIRGIN TIMBER, Preston Co., W. Va. \$40 per acre, in fee, accept coal. J. O. MEAD, Parkersburg, W. Va.

VIRGINIA SPRUCE FOR SALE—Tazewell County, Virginia, one thousand acres fine spruce, will cut close to 20,000,000 feet; trees tall, will cut six 16-foot logs to tree; six miles from railroad across mountain or 12 miles around mountain; good roads. For further particulars write SHAMOKIN LUMBER AND MANUFACTURING CO., Shamokin, Pa.

FARM, FRUIT, AND TRUCK LANDS

FLORIDA

FLORIDA—Playground of the Rich; Paradise of the poor. The fastest developing State in the Union, and Roger Babson, the great business statistician, says that TAMPA is destined to be the greatest city in the Southeast. Come and be one of us. We have a Home, Grove or Farm for you. Send today for booklet. "Largest Orange Tree in the World," and list. Tampa-West Coast Realty Co., (Inc.), Opp. Post Office, "Since before the war," Tampa, Fla.

FARM, FRUIT, AND TRUCK LANDS

FLORIDA

FOR SALE

Six thousand acres of land, good for fruit and farming, also fine satsuma orange land, high, well drained, over two hundred feet above sea level; fine lakes and good fishing and hunting, will take \$12.50 per acre, other land in same vicinity has been selling as high as \$200.00 per acre, this is a good purchase will net any purchaser 8 per cent annually on his investment. Apply to G. M. Thomas, Marianna, Fla.

VIRGINIA

FARMS TO FIT—Mild climate. Nearby markets. Easy terms. Booklet free. 165a \$15,000. Splendid buildings, easily worth \$25,000. Ponton, The Farm Tailor, Box 343, Bedford, Va.

BUSINESS OPPORTUNITIES

FOR SALE nice home, 600 acre farm and hydro-electric plant with a twenty-year contract with the City of Marianna for light and power. Plant pays ten thousand dollars a year; also good fishing and hunting as there is in the State, fine sport. An ideal place for anybody to live. Six miles South of City of Marianna. Want to sell quick. Wire or write or come to G. M. Thomas, Marianna, Fla.

MUSCLE SHOALS.

This is the place for good, substantial investments. If interested communicate with me.

H. P. HILLHOUSE,
Box 136, Tuscumbia, Ala.

FOR SALE—A Retail Grocery business and Filling Station. A live going concern. Fresh Clean Stock, Long Lease, Fine Location, on the Indian River and Dixie Highway, in one of the largest citrus growing sections of the State, which is being rapidly developed. Will take around \$5000 to handle the deal. Other interest requiring owner's attention. C. R. Jenkins, Sharpes, Fla.

SUBSTANTIAL MANUFACTURING COMPANY wants capable man to open office and manage salesmen. \$500 to \$1500 necessary. Possibilities unlimited. Atlantic Coast Mfg. Co., McKevitt Bldg., Norfolk, Va.

THE EYES OF THE WORLD are turned to North Carolina. In Hendersonville, fast growing and progressive. For Sale, the only exclusive Seed Store \$1000. Stock. Rock building 35 by 106 feet. Price reasonable. Easy terms. Hendersonville Seed Co.

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- 1 Lot 200x385 Feet.
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MANUFACTURERS AGENCY WANTED by experienced salesman in railroad con-tractors equipment and supplies for St. Paul and Minneapolis. Address F. M. Cald-well, 335 Temple Court, Minneapolis, Minn.

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CIVIL ENGINEER fifteen years experi-ence, desires permanent position county or city engineer. Highway experience six years, three states, all capacities. Reasonable salary. R. W. J., Apt. 21, 1301 Porter St., Richmond, Va.

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With lumber company by ex-service man. College graduate, over five years' experience as ranger, U. S. Forest Service, both South-ern Appalachian hardwood region and pine forests of Arkansas. Experienced as scaler, cruiser, surveying and all general lumber work in woods. Single, industrious, 37 years old. Address J. HENDLEY JOHNSON, Manassas, Va.

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WANTED, by wholesale lumber firm, with well established business, a Pine and Hardwood salesman of proven ability, either on straight salary or salary and commission basis. Territory, Piedmont section, North Carolina and Virginia. Ad-dress Box 1232, Columbia, S. C.

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